Manual A

The Harman Kardon Model AVR80/AVR80MK II

AUDIO AND VIDEO RECEIVER

Technical Manual



	The following marks found in the parts list of this manual identify the models as follows.							
BK	AVR80	:North America area model Black version						
		(with Tact type mains switch)						
B	AVR80	:International model Black version						
_		(with Tact type mains switch)						
BK	AVR80MK II	:North America area model Black version						
_		(with Manual Operated Mechanical type mains switch)						
B	AVR80[MOMS]	:International model Black version						
		(with Manual Operated Mechanical type mains switch)						

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harman/kardon

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SPECIFICATIONS

FRONT AMP SECTION

	Nominal	Limit	
Continuous Power Output			Input Sensitivity/Impedance
(STEREO MODE), Input: CD	≥110 W	≥100 W	LD, TV, VCR1, VCR2, AUX
THD: 0.09%, 8 ohms			Output Level/Impedance
Both Channel Driven (20 Hz - 20			VCR1, VCR2, Monitor
(SURROUND MODE)	≥85 W	≥75 W	Frequency Response at-3 dB
THD: 0.3%, 8 ohms, 1 kHz			
THD at 100 W, 8 ohms, Input: CD			FM SECTION
20 Hz	≤0.03%	≤0.09%	
1 kHz	≤0.01%	≤0.09%	Tuning Cover Range 50 kHz S
20 kHz	≤0.05%	≤0.09%	Mono Usable Sensitivity (75 of
IM Distortion at 100 W, 8 ohms, Vo		<0.000V	Image Delection (at 00 MHz)
	≤0.03%	≤0.09%	Image Rejection (at 98 MHz)
Input Sensitivity for Rated Power C			USA/Canada
CD/TAPE1/TAPE2/TV/LD	250 mV	220-290 mV 220-290 mV	Europe IF Rejection (at 98 MHz)
VCR1/VCR2/AUX	250 mV		50 dB Quieting Sensitivity (at 9
S/N Ratio Input Shorted at 1kHz 1	w Output (wiii ≥82 dB	≥78 dB	IHF Band Pass Filter
CD Tana Control	202 UB	270 UD	Stereo
Tone Control Bass: 100 Hz	+10 dB	+10 ±2.5 dB	Distortion (1 kHz, 100% MOD.
Bass: 100 Hz	-10 dB	- 10 ±2.5 dB	IHF Band Pass Filter
Treble: 10kHz	+10 dB	+10 ±2.5 dB	Mono
HEDIE. TORFIZ	-10 dB	- 10 ±2.5 dB	S/N Ratio (500 μV Input, 100%
Frequency Response at -3dB	-10 05	- 10 -2.0 00	IHF Band Pass Filter
Mode: Stereo, Ref: 1 kHz, Sub W	oofer: ON		Stereo
	- 70 kHz	90 Hz - 50 kHz	Frequency Response (30 Hz -
Mode: Stereo, Ref: 1 kHz, Sub W		00112 0011112	USA/Canada De-Emphasis:
	Hz - 70kHz	15 Hz - 50 kHz	Europe De-Emphasis: 50μS
Channel Crosstalk Input Shorted b			AM Suppression at 98 MHz
100Hz	≥55 dB	≥50 dB	
1 kHz	≥45 dB	≥40 dB	Muting Threshold (at 98 MHz)
10 kHz	≥35 dB	≥30 dB	Overload Break-up at 98 MHz
			Capture Ratio at 65 dbf
CENTER AMP SECTION			Stereo Separation (at 98 MHz,
	Nominal	Limit	IHF Band Pass Filter
RMS Output Power			1 kHz
THD (0.3%, 8 ohms, 1 kHz)			Tape out Level (at 98 MHz)
Only Center Channel Driven	≥110 W	≥100 W	
S/N Ratio (Input Level : 141 mV)			
Input Shorted, IHF-A WTD	≥72 dB	≥68 dB	AM SECTION
Frequency Response at-3 dB			
8 ohms, Dolby Pro-Logic 15	Hz - 22 kHz	30 Hz - 20 kHz	Tuning Cover Range (MW)
			USA/Canada : 10 kHz Step
REAR AMP SECTION			Other: 9 kHz Step
	Nominal	Limit	Other: 9 kHz Step Tuning Cover Range (LW)
RMS Output Power	Nominal	Limit	Other : 9 kHz Step Tuning Cover Range (LW) 1 kHz Step
RMS Output Power THD (0.7%, 8 ohms, 1 kHz)			Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven	≥85 W	Limit ≥75 W	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W	≥85 W /TD)	≥75 W	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141	≥85 W /TD)		Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz)
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB	≥85 W /TD) mV ≥72 dB	≥75 W ≥68 dB	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB	≥85 W /TD)	≥75 W	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz)
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB	≥85 W /TD) mV ≥72 dB	≥75 W ≥68 dB	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic SUB WOOFER SECTION	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz	≥75 W ≥68 dB 30 Hz - 6.5 kHz	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100)
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic SUB WOOFER SECTION Line level at Pre out	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz Spurious Rejection (at 999/100
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30%)
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic 15 SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large Input signal: L ch (only) 200mV	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 Hz)
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 H Selectivity (at 999/1000 Hz)
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large Input signal: L ch (only) 200mV Master volume: 0 dB	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz prox. 150 mVrms	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 H Selectivity (at 999/1000 Hz) 9 kHz/10 kHz
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic 15 SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large Input signal: L ch (only) 200mV	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 H Selectivity (at 999/1000 Hz) 9 kHz/10 kHz 18 kHz/20kHz
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic 15 SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large Input signal: L ch (only) 200mV Master volume: 0 dB Low pass crossover frequency	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz prox. 150 mVrms	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 H Selectivity (at 999/1000 Hz) 9 kHz/10 kHz 18 kHz/20kHz S/N Ratio (999/1000 kHz, With
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large Input signal: L ch (only) 200mV Master volume: 0 dB	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz prox. 150 mVrms	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 H Selectivity (at 999/1000 Hz) 9 kHz/10 kHz 18 kHz/20kHz S/N Ratio (999/1000 kHz, With (Europe: Using 15 kHz L.P.F
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic 15 SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large Input signal: L ch (only) 200mV Master volume: 0 dB Low pass crossover frequency	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz prox. 150 mVrms	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 H Selectivity (at 999/1000 Hz) 9 kHz/10 kHz 18 kHz/20kHz S/N Ratio (999/1000 kHz, With
RMS Output Power THD (0.7%, 8 ohms, 1 kHz) Only Rear Channel Driven S/N Ratio (Input Shorted, IHF-A W Delay: 20 ms, Input Level: 141 Frequency Response at-3 dB 8 ohms, Dolby Pro-Logic 15 SUB WOOFER SECTION Line level at Pre out Surround mode: Dolby Pro-Logic Center speaker mode: Large Input signal: L ch (only) 200mV Master volume: 0 dB Low pass crossover frequency	≥85 W /TD) mV ≥72 dB i Hz - 7 kHz Ap	≥75 W ≥68 dB 30 Hz - 6.5 kHz prox. 150 mVrms	Other: 9 kHz Step Tuning Cover Range (LW) 1 kHz Step Usable Sensitivity MW at 999/1000 kHz LW at 207 kHz Image Rejection (at 999 kHz) IF Rejection (at 999/1000 kHz) Spurious Rejection (at 999/100 AGC Figure of Merit (From 100 Distortion (999/1000 Hz, 30% Frequency Response (999/100 at -3 dB 100 H Selectivity (at 999/1000 Hz) 9 kHz/10 kHz 18 kHz/20kHz S/N Ratio (999/1000 kHz, With (Europe: Using 15 kHz L.P.F

Nominal

Limit

VIDEO AMP SECTION	Nominal	Limit
Input Sensitivity/Impedance	Nominai	Limit
LD, TV, VCR1, VCR2, AUX	1 Vp-p/75 Ω	±1 dB
Output Level/Impedance		
VCR1, VCR2, Monitor	1 V _{P-P} /75 Ω	±1 dB
Frequency Response at-3 dB	DC-8 MHz	DC-6MHz
FM SECTION		
	Nominal	Limit
Tuning Cover Range 50 kHz Step	87.50 - 108.00	MHz
Mono Usable Sensitivity (75 ohms Inp		
	≤13.5 dbf	≤19.2 dbf
Image Rejection (at 98 MHz)	50.10	- 40 dB
USA/Canada	>50 dB	≥40 dB
Europe	≥70 dB	≥60 dB ≥65 dB
IF Rejection (at 98 MHz)	≥70 dB	200 GP
50 dB Quieting Sensitivity (at 98 Mhz IHF Band Pass Filter	, 100% MOD.)	
Stereo	≤39.2 dbf	≤43.3 dbf
Distortion (1 kHz, 100% MOD. at 98 M		
IHF Band Pass Filter	vii 12, 00001 iiipi	,
Mono	≤0.2%	≤0.5%
S/N Ratio (500 μV Input, 100% MOD.		
IHF Band Pass Filter		
Stereo	≥65 dB	≥60 dB
Frequency Response (30 Hz - 15 kHz	<u>z</u>)	
USA/Canada De-Emphasis: 75μS	+0.5 dB	+1.0 dB
Europe De-Emphasis: 50μS	-2.0 dB	-4.0 dB
AM Suppression at 98 MHz		
	≥55 dB	≥45 dB
Muting Threshold (at 98 MHz)	27.2 dbf	23.3-32.0dbf
Overload Break-up at 98 MHz	71 dbf	65 dbf
Capture Ratio at 65 dbf	≤1.5 dB	≤2.5 dB
Stereo Separation (at 98 MHz, 100% IHF Band Pass Filter	MOD., 500 μV	input)
1 kHz	≥40 dB	≥30 dB
Tape out Level (at 98 MHz)	240 UD	200 GD
Tape out Level (at 50 WHZ)	800 mV	600-1300 mV
	300 1117	
AM SECTION		
	Nominal	Limit
Tuning Cover Range (MW)		
USA/Canada : 10 kHz Step	520 - 1710 kH	z
Other: 9 kHz Step	531 - 1602 kH	z
Tuning Cover Range (LW)		

AM SECTION	Nominal	Limit			
Tuning Cover Range (MW)	Homma				
USA/Canada : 10 kHz Step	520 - 1710 kHz	7			
Other: 9 kHz Step	531 - 1602 kHz				
Tuning Cover Range (LW)	001 100E KI	-			
1 kHz Step	152 kHz - 282	kH2			
Usable Sensitivity	132 KI 12 - 202 KI 12				
MW at 999/1000 kHz	≤500 μV/m	≤800 μV/m			
LW at 207 kHz	≤1500 μV/m	•			
Image Rejection (at 999 kHz)	≥40 dB	≥35 dB			
IF Rejection (at 999/1000 kHz)	≥60 dB	≥50 dB			
Spurious Rejection (at 999/1000 kHz					
	≥65 dB	≥55 dB			
AGC Figure of Merit (From 100 mV/m at 999/1000 kHz)					
	≥55 dB	≥48 dB			
Distortion (999/1000 Hz, 30% MOD. 5	50 mVm Input)				
	≤1.0%	≤2.0%			
Frequency Response (999/1000 kHz)) .				
at -3 dB 100 Hz - 2.2	kHz 150 Hz	2 - 1.8 kHz			
Selectivity (at 999/1000 Hz)					
9 kHz/10 kHz	≥30 dB	≥20 dB			
18 kHz/20kHz	≥70 dB	≥60 dB			
S/N Ratio (999/1000 kHz, With Anten	na Input 50 mV	///m)			
(Europe : Using 15 kHz L.P.F.)	≥50 dB	≥45 dB			
Overload Break-up at 999/1000 kHz	(THD 10%)				
	≥1000 mV/m	≥500 mV/m			
TAPE Output Level at 999/1000 kHz					
	240 mV	150-340 mV			

GENERAL		
	Nominal	Limit
Power Consumption		
At Rated Power All Channel Driven	400 W	300 - 500W
Idling at Minimum Volume Control	55 W	45 - 65 W
Power Supplies :		
USA/Canada	AC 120 V, 6	i0 Hz
Europe	AC 230 V, 5	0 Hz
Dimensions (W x H x D):		
inches	17 ^{1/16} x 6 ^{3/3}	² x 18 ^{1/16}
mm	444 x 160 x	459
Weight (lbs/kgs)	32.0/14.4	

These specifications are service target specs.

Specifications and components are subject to change without notice.

Overall performance will be maintained or improved.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off
 any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a
 commercially available discharging wrist strap device, which should be removed for potential shock reasons
 prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
 - CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together or your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

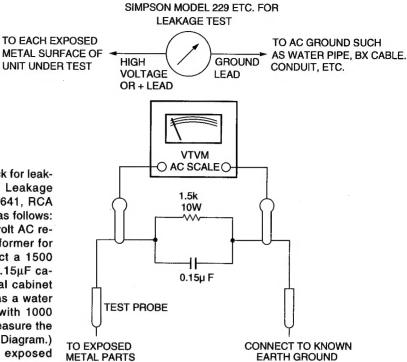
Components identified with the IEC symbol in the parts list are of special significance to safety. When replacing a component identified with in the parts list are designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual.

Leakage - current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

LEAKAGE TEST (FOR SERVICE ENGINEERS IN THE U.S.A.)

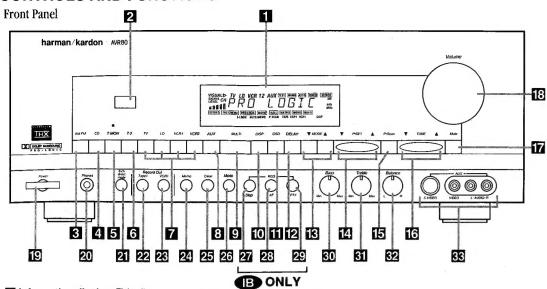
Before returning the unit to the user, perform the following safety checks:

- Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
- Be sure that any protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. Which were removed for servicing are properly reinstalled.
- 3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows: Plug the power cord directly into a 120-volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 Ohm, 10-watt resistor paralleled by a 0.15µF capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 Ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See Diagram.) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the power switch in both the On and Off positions.)



A reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.

CONTROLS AND FUNCTIONS



Information display: This display delivers messages and status indications to help you operate the receiver. Refer to the separate diagram for a complete explanation of the FL display.

2 Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed.

AM/FM Tuner Mode Selection: Press this button once to select the tuner. Press it again to switch between FM, MW and LW.

4 CD: Press this button to select the CD player.

5 Tape1/Monitor: Press this button to select Tape One as the input source. A red LED above the button will illuminate to indicate that the Tape Monitor has been selected.

6 Tape 2: Press this button to select Tape 2.

7 Video Sources: Press any of these buttons to select a video input source.

3 Aux: Press this button to select the source connected to the front panel Aux jacks.

■ Multiroom Audio Select: Press this button to turn on the feed to the remote zone. The remote zone will stay on after the main power switch is turned off until it is switched off by the remote room control or by pressing this button again.

[0] Display: Press this button to turn off the front panel FL display. The DISP indicator will illuminate to remind you that the unit is still turned on.

11 OSD (On Screen Display):
Press the button briefly to display a system status report on your video screen. Press and hold the button to

Delay: Press this button to increase the delay to the rear (surround) channels.

change the video standard.

IB Mode: Press these buttons to scroll up ▲ or down ▼ through the list of available surround modes.

 P-Set: Press these buttons to manually scroll up ▲ or down ▼ through the stations programmed into the receiver's preset memory.

IF P-Scan: Press this button to automatically scan through the FM or AM stations preset into the receiver's memory. Press the button again to stop the scan when the tuner is at the desired station.

Tune: Press these buttons to manually scan up ▲ or down ▼ through the FM, LW or AM bands.

17 Mute: Press this button to cut the output to the speakers. Press it again to return to the previous volume level

Volume Control: Turn the knob clockwise to increase volume, counterclockwise to decrease the volume. Note that approximately two revolutions of the knob are required to go from no output to maximum

Te Power: press this button once to turn the unit on or off. In order to use the remote control to turn the unit on the power switch must be pressed once, and then the unit must be turned off via the remote. The LED indicator light surrounding the power switch will glow amber when the unit is in the Standby mode and green when the unit is on.

20 **Headphone Jack:** Plug standard stereo headphones into this jack for private listening.

NOTE: When the headphones are in use the output to the speakers is muted and the surround mode is automatically switched to STEREO. When the headphones are removed from the jack, sound to the speakers is restored and the unit returns to the previous sound mode.

21 6 Channel Direct: Press this button to select the output of an external multichannel audio adapter.

22 Tape 1 Copy: Press this button to select the input for the recorder connected to **Tape 1**. The first press will select the source currently being listened to. Press again to select the input in the following order: **Tuner** → **CD** → **Tape 2** → **Source**.

23 VCR1 Copy: Press this button to select the input to the recorder connected to VCR1. The first press selects the input currently being viewed. Press the button again to select the input in the following order:

TV→LD→VCR2→AUX→Source

Memo: The memo button is used to enter stations to the tuner's preset memory in either the manual or automatic modes. It is also used in clearing the memory and entering the

25 Clear: The clear button is used to cancel tuning, memory input or when clearing the unit's memories.

sleep timer period.

26 FM Mode: Press this button to select the tuning mode for FM

27 RDS Display: When a station transmitting RDS data is tuned, press this button to view the tuning frequency.

23 RDS AF: The button is used to search for stations transmitting a specific programme type that offers better reception than the currently truned station

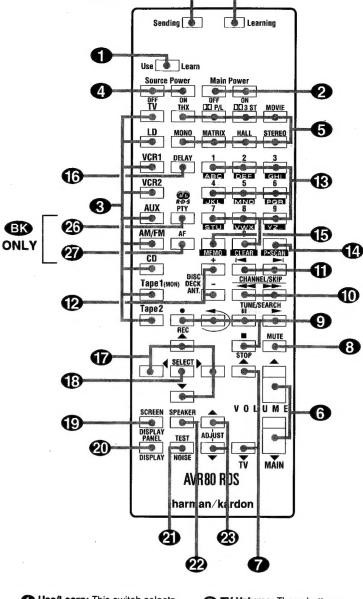
RDS PTY: Press this button to view the programme type (PTY) when an RDS station is tuned. It is also used to initiate a search for RDS stations transmitting a specific programme type.

ED Bass: This knob adjusts the tone of low frequency sounds. Turn it to the right to boost bass frequencies or to the left to cut bass frequencies.

31 Treble: This knob adjusts the tone of high frequency sounds. Turn it to the right to boost high frequencies or to the left to cut high frequencies.

©2 Balance: This knob adjusts the balance between the front left and right speakers.

Front Panel Inputs: Audio or Video sources connected to these jacks may be selected by pressing the Aux button 3.



Remote Control

1 Use/Learn: This switch selects the operation mode of the remote control. Slide it to the left for normal operation. Slide it to the right when the remote is being programmed.

Main Power: Press these buttons to turn the unit on or off.

Source Selection: Pressing one of these buttons selects the input source that will be listened to through the receiver. When a source is selected the remote's transport and numeric number buttons will also transmit the commands needed to control that machine.

4 Source Power: Press these buttons to control power for the last source device selected.

Surround Mode Selection: Press one of these buttons to select a surround mode for the current listening session.

6 Main Volume: These buttons control the unit's volume. Note that all channels are controlled simultaneously.

adjust the volume: These buttons adjust the volume for TV using the remote control codes programmed into the remote for a TV set or cable box. These buttons control the TV set only, regardless of which source is selected. This enables you to control the audio level of a TV set even when the receiver is not in use.

Mute: Press this button to temporarily cut the audio output of the receiver. Press it again to return to the previous volume level.

Transport Controls: These buttons control the tape or disc motion of the last playback source selected with the Source Selection buttons 3. Use them as you would the Play, Stop, Pause, Reverse Play and Record buttons on any VCR, CD or LD remote control.

Tune/Search & Fast Forward: (These buttons have multiple functions, which vary according to the input device selected.)

When the **TUNER** has been selected, these buttons are used to manually tune stations.

b. When CD, LD or VCR is the input source, these buttons act as the Fast Scan Forward or Fast Scan Reverse controls.

(These buttons have multiple functions, which vary according to the input device selected.)

- b. When TV or VCR is selected, they are the channel up → I or channel down I tuning buttons.
- c. When CD or LD is selected these buttons act as forward and reverse "Skip" buttons to move to the next track or chapter on the disc.
- d. When a compatible Harman
 Kardon cassette player has been
 selected as **Tape 1** or **Tape 2**,
 these buttons move the tape forward ► or backwards ← to the
 next selection using the Music
 Scan feature.

Disc/Deck/Ant: (These buttons have multiple functions, which vary according to the input device selected.)

- a. When CD is selected and the unit is a CD changer, these buttons will change to the next disc + or previous disc -.
- b. When **Tape 1** or **Tape 2** is the input source, and the tape machine is a compatible Harman Kardon dual cassette deck, these buttons will switch between the "A" and "B" sides.
- c. When VCR 1 or VCR 2 is the input source, these buttons switch between VCR and TV as the unit's output.
- d. When TV is the input source, these buttons may switch between video input sources or antenna/video, depending on the TV model.
- e. When LD is the input source, these buttons will switch the side being played from "A" to "B" on compatible dual side players.

(B) Number Keys: These buttons serve as a ten button numeric keypad to enter tuner preset positions. They are also to be used to select channel numbers when TV has been selected on the remote, or to select track numbers on a CD or LD player, depending on how the remote has been programmed. The letters below the buttons are used to enter information for tuner station names.

NOTE: The 0 button has a dual function. It also serves as the **CLEAR** button for use in programming the tuner or clearing the system memory.

P-Scan: Press this button to automatically scan through the stations preset into the tuner memory. Press the button again to end the scan when the tuner stops at the desired station.

Memo: The memo button is used to enter stations to the tuner's preset memory in either the manual or automatic modes. It is also used in the process of clearing the memory.

(B) Delay: This button controls the amount of sound delay to the rear (surround) channels. Press it to increase the delay in the steps shown in the main Information Display or on-screen graphics.

Menu Controls: These buttons control the action of the cursor or the selection of menu items when the receiver is being configured using the setup menus.

Select: This button enters settings to the receiver's memory during system configuration.

Screen Display: Press this button to activate the on screen menu system.

② Panel Display: Press this button to turn off all displays and indicators in the Information Display except for a small DISP indication in the lower right corner of the display Press the button again to turn the display back on. Note that the display will briefly illuminate when a command is sent to the unit from the front panel or remote, even though the display is turned off.

2 Test Noise: Press this button to begin calibration of the output level for each channel. A test signal will immediately be heard from the left front speaker and the TEST indicator ② will flash.

Speaker Select: When setting the system output levels, this button selects the speaker position being adjusted. Press it once to advance to the next speaker after each position is adjusted.

② Level Adjust: When setting the system output levels, press these buttons to increase or decrease the

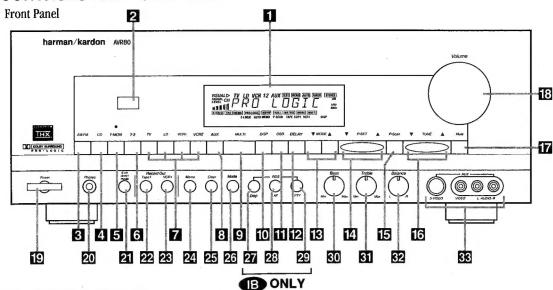
Sending LED: This indicator should flash any time a button is pressed to confirm that a command is being sent to the receiver or another unit. If the light is dim or does not illuminate when a button is pressed the batteries in the remote should be replaced.

Learn LED: This indicator will illuminate when a button on the remote is being programmed with signals from another remote during the "learning" mode. The light will go out when the signal is received and memorized.

RDS PTY: Press this button to view the Programme Type information for stations transmitting RDS data. This button is also used for PTY Auto Search functions.

RDS AF: This button initiates a search of all RDS stations to find a stronger signal for the programme type currently selected.

CONTROLS AND FUNCTIONS



- Information display: This display delivers messages and status indications to help you operate the receiver. Refer to the separate diagram for a complete explanation of the FL display.
- Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed.
- AM/FM Tuner Mode Selection:
 Press this button once to select the tuner. Press it again to switch between FM, MW and LW.
- 4 CD: Press this button to select the CD player.
- Tape1/Monitor: Press this button to select Tape One as the input source. A red LED above the button will illuminate to indicate that the Tape Monitor has been selected.
- **6 Tape 2:** Press this button to select Tape 2.
- **Video Sources:** Press any of these buttons to select a video input
- **3 Aux:** Press this button to select the source connected to the front panel **Aux** jacks.
- Multiroom Audio Select: Press this button to turn on the feed to the remote zone. The remote zone will stay on after the main power switch is turned off until it is switched off by the remote room control or by pressing this button again.
- **10 Display:** Press this button to turn off the front panel FL display. The **DISP** indicator will illuminate to remind you that the unit is still turned on.
- iii OSD (On Screen Display):
 Press the button briefly to display a system status report on your video screen. Press and hold the button to change the video standard.
- **12 Delay:** Press this button to increase the delay to the rear (surround) channels.
- Mode: Press these buttons to scroll up ▲ or down ▼ through the list of available surround modes.

- P-Set: Press these buttons to manually scroll up ▲ or down ▼ through the stations programmed into the receiver's preset memory.
- **IF** P-Scan: Press this button to automatically scan through the FM or AM stations preset into the receiver's memory. Press the button again to stop the scan when the tuner is at the desired station.
- **16 Tune:** Press these buttons to manually scan up ▲ or down ▼ through the FM, LW or AM bands.
- **Mute:** Press this button to cut the output to the speakers. Press it again to return to the previous volume level.
- [3] Volume Control: Turn the knob clockwise to increase volume, counterclockwise to decrease the volume. Note that approximately two revolutions of the knob are required to go from no output to maximum volume.
- EPower: press this button once to turn the unit on or off. In order to use the remote control to turn the unit on the power switch must be pressed once, and then the unit must be turned off via the remote. The LED indicator light surrounding the power switch will glow amber when the unit is in the Standby mode and green when the unit is on.
- **10 Headphone Jack:** Plug standard stereo headphones into this jack for private listening.
- NOTE: When the headphones are in use the output to the speakers is muted and the surround mode is automatically switched to STEREO. When the headphones are removed from the jack, sound to the speakers is restored and the unit returns to the previous sound mode.
- **2] 6 Channel Direct:** Press this button to select the output of an external multichannel audio adapter.
- 22 Tape 1 Copy: Press this button to select the input for the recorder connected to Tape 1. The first press will select the source currently being listened to. Press again to select the input in the following order:

 Tuner→CD→Tape 2→Source.

- VCR1 Copy: Press this button to select the input to the recorder connected to VCR1. The first press selects the input currently being viewed. Press the button again to select the input in the following order:

 TV→LD→VCR2→AUX→Source
- 24 Memo: The memo button is used to enter stations to the tuner's preset memory in either the manual or automatic modes. It is also used in clearing the memory and entering the sleep timer period.
- **25 Clear:** The clear button is used to cancel tuning, memory input or when clearing the unit's memories.
- 26 FM Mode: Press this button to select the tuning mode for FM stations.
- **27 RDS Display:** When a station transmitting RDS data is tuned, press this button to view the tuning frequency.
- RDS AF: The button is used to search for stations transmitting a specific programme type that offers better reception than the currently tuned station.
- **29 RDS PTY:** Press this button to view the programme type (PTY) when an RDS station is tuned. It is also used to initiate a search for RDS stations transmitting a specific programme type.
- G Bass: This knob adjusts the tone of low frequency sounds. Turn it to the right to boost bass frequencies or to the left to cut bass frequencies.
- **31 Treble:** This knob adjusts the tone of high frequency sounds. Turn it to the right to boost high frequencies or to the left to cut high frequencies.
- **22 Balance:** This knob adjusts the balance between the front left and right speakers.
- **E3** Front Panel Inputs: Audio or Video sources connected to these jacks may be selected by pressing the **Aux** button **3**.



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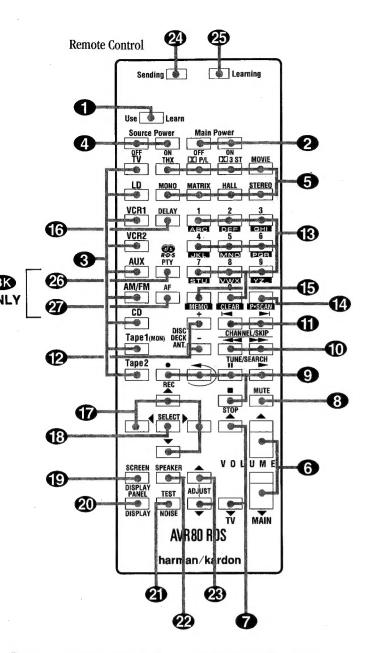
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- **Use/Learn:** This switch selects the operation mode of the remote control. Slide it to the left for normal operation. Slide it to the right when the remote is being programmed.
- Main Power: Press these buttons to turn the unit on or off.
- Source Selection: Pressing one of these buttons selects the input source that will be listened to through the receiver. When a source is selected the remote's transport and numeric number buttons will also transmit the commands needed to control that machine.
- **4 Source Power:** Press these buttons to control power for the last source device selected.
- **Surround Mode Selection:** Press one of these buttons to select a surround mode for the current listening session.
- Main Volume: These buttons control the unit's volume. Note that all channels are controlled simultaneously.

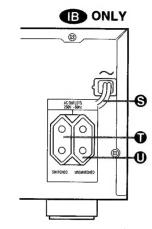
- TV Volume: These buttons adjust the volume for TV using the remote control codes programmed into the remote for a TV set or cable box. These buttons control the TV set only, regardless of which source is selected. This enables you to control the audio level of a TV set even when the receiver is not in use.
- Mute: Press this button to temporarily cut the audio output of the receiver. Press it again to return to the previous volume level.
- Transport Controls: These buttons control the tape or disc motion of the last playback source selected with the Source Selection buttons Duse them as you would the Play, Stop, Pause, Reverse Play and Record buttons on any VCR, CD or LD remote control.
- **(These buttons have multiple functions, which vary according to the input device selected.)**
- When the **TUNER** has been selected, these buttons are used to manually tune stations.

- b. When CD, LD or VCR is the input source, these buttons act as the Fast Scan Forward or Fast Scan Reverse controls.
- (These buttons have multiple functions, which vary according to the input device selected.)
- a. When the TUNER has been selected, these buttons will scroll up or down the through the stations that have been prodrammed in the preset memory.
- b. When TV or VCR is selected, they are the channel up
 —I or channel down
 — tuning buttons.
- c. When CD or LD is selected these buttons act as forward and reverse "Skip" buttons to move to the next track or chapter on the disc.
- d. When a compatible Harman Kardon cassette player has been selected as **Tape 1** or **Tape 2**, these buttons move the tape forward ► or backwards ► to the next selection using the Music Scan feature.
- (Disc/Deck/Ant: (These buttons have multiple functions, which vary according to the input device selected.)
- a. When CD is selected and the unit is a CD changer, these buttons will change to the next disc + or previous disc -.
- b. When Tape 1 or Tape 2 is the input source, and the tape machine is a compatible Harman Kardon dual cassette deck, these buttons will switch between the "A" and "B" sides.
- c. When VCR 1 or VCR 2 is the input source, these buttons switch between VCR and TV as the unit's output.
- d. When TV is the input source, these buttons may switch between video input sources or antenna/video, depending on the TV model.
- e. When LD is the input source, these buttons will switch the side being played from "A" to "B" on compatible dual side players.
- Number Keys: These buttons serve as a ten button numeric keypad to enter tuner preset positions. They are also to be used to select channel numbers when TV has been selected on the remote, or to select track numbers on a CD or LD player, depending on how the remote has been programmed. The letters below the buttons are used to enter information for tuner station names.
- NOTE: The 0 button has a dual function. It also serves as the CLEAR button for use in programming the tuner or clearing the system memory.
- P-Scan: Press this button to automatically scan through the stations preset into the tuner memory. Press the button again to end the scan when the tuner stops at the desired station.

- (5) Memo: The memo button is used to enter stations to the tuner's preset memory in either the manual or automatic modes. It is also used in the process of clearing the memory.
- (B) Delay: This button controls the amount of sound delay to the rear (surround) channels. Press it to increase the delay in the steps shown in the main Information Display or on-screen graphics.
- **Menu Controls:** These buttons control the action of the cursor or the selection of menu items when the receiver is being configured using the setup menus.
- **B Select:** This button enters settings to the receiver's memory during system configuration.
- Screen Display: Press this button to activate the on screen menu system.
- ② Panel Display: Press this button to turn off all displays and indicators in the Information Display except for a small DISP indication in the lower right corner of the display ② Press the button again to turn the display back on. Note that the display will briefly illuminate when a command is sent to the unit from the front panel or remote, even though the display is turned off.
- ② Test Noise: Press this button to begin calibration of the output level for each channel. A test signal will immediately be heard from the left front speaker and the TEST indicator ② will flash.
- Speaker Select: When setting the system output levels, this button selects the speaker position being adjusted. Press it once to advance to the next speaker after each position is adjusted.
- Level Adjust: When setting the system output levels, press these buttons to increase or decrease the output level.
- Sending LED: This indicator should flash any time a button is pressed to confirm that a command is being sent to the receiver or another unit. If the light is dim or does not illuminate when a button is pressed the batteries in the remote should be replaced.
- ☼ Learn LED: This indicator will illuminate when a button on the remote is being programmed with signals from another remote during the "learning" mode. The light will go out when the signal is received and memorized.
- RDS PTY: Press this button to view the Programme Type information for stations transmitting RDS data. This button is also used for PTY Auto Search functions.
- **PRDS AF:** This button initiates a search of all RDS stations to find a stronger signal for the programme type currently selected.

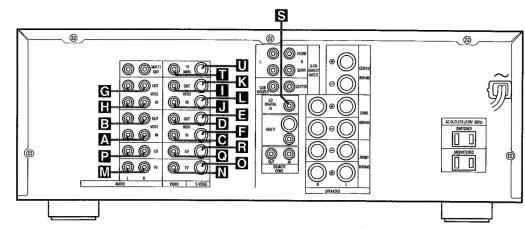
- A FM Antenna: Connect an indoor or external FM antenna to these terminals. Note that the supplied 300 ohm to 75 ohm adapter is required for connections from twin lead or inside dipole antennas.
- AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the
- ♠ Tape 1 Out: Connect these jacks to the RECORD/INPUT jacks of an audio recorder.
- Tape 1 In: Connect these jacks to the PLAY/OUT jacks of an audio recorder.
- **(a)** Tape 2 Out: Connect these jacks to the RECORD/INPUT jacks of a second audio recorder.
- Tape 2 In: Connect these jacks to the PLAY/OUT jacks of a second audio recorder
- @ CD IN: Connect these jacks to the output of a compact disc player or CD changer.
- ♠ Front L: Connect these terminals to the front left speaker
- Front R: Connect these terminals to the front right speaker.
- Center: Connect these terminals to the center speaker.
- (Surround L: Connect these terminals to the left surround speaker.

- ♠ Surround R: Connect these terminals to the right surround speaker.
- M Subwoofer Pre-Out: Connect this jack to the line level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier
- N Pre-Outs: If external power amplifiers are used for any channels. remove the connection pin and connect the jack to the input of the amplifier.
- ⑥ 6 Channel Direct Input: If an external digital audio decoder is used for 5.1 (Dolby AC-3) audio, connect the outputs of that decoder to these terminals
- @ Multi Room Interface: For multiroom installations where keypad remotes are in use, connect the keypad interface to this jack.
- Multi IR: Connect the output of an IR sensor in a remote room to this jack to operate the AVR80's multiroom control system
- Multi-Out: When using the AVR 80 for multi-room audio, connect this jack to the input of the audio amplifier powering the remote room speak-
- **O Power Cable:** Connect the AC plug to a non-switched AC wall



- Switched AC Outlet: This outlet may be used to power any device that you wish to have on when the unit is turned on.
- **(I)** Unswitched AC Outlet: This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR80 is on or off.
- NOTE: The power consumption of the device plugged into each of these outlets should not exceed 120
- Remote IR In: If the AVR80's front panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack.
- M Remote IR Out: This connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment.

Rear Panel - Video Connections



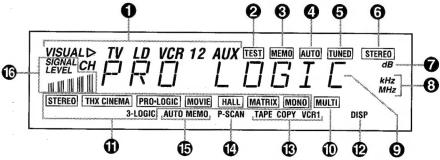
- A VCR 1 Audio In: Connect these jacks to the audio PLAY/OUT jacks
- **B VCR 1 Audio Out:** Connect these jacks to the RECORD/IN audio iacks of a VCR
- C VCR 1 Video In: Connect these acks to the composite video PLAY/OUT jacks of a VCR.
- D VCR 1 Video Out: Connect these jacks to the composite video RECORD/IN jacks of a VCR.
- VCR 1 S Video Out: Connect these jacks to the "S" video RECORD/IN jacks of a VCR
- VCR 1 S Video In: Connect these jacks to the "S" video RECORD/OUT jacks of a VCR.

- **G VCR 2 Audio Out:** Connect these jacks to the audio jacks RECORD/IN of a second VCR.
- **III VCR 2 Audio In:** Connect these jacks to the audio PLAY/OUT jacks of a second VCR
- VCR 2 Video Out: Connect these jacks to the composite video RECORD/IN jacks of a second VCR
- J VCR 2 Video In: Connect these jacks to the composite video PLAY/OUT jacks of a second VCR.
- VCR 2 S Video Out: Connect these jacks to the "S" video RECORD/IN jacks of a second VCR
- VCR 2 S Video In: Connect these jacks to the "S" video. RECORD/OUT jacks of a second

- M TV Audio In: Connect the audio outputs of a TV, cable converter or satellite receiver to these jacks.
- N TV Video In: Connect the composite video output of a TV, cable converter or satellite receiver to this jack. The signals received at this jack are also used to trigger the 'TV Auto-On" feature.
- TV S Video In: Connect the "S" video output of a TV, cable converter or satellite receiver to this jack.
- P LD Audio In: Connect the audio output of a laser disc player to these
- LD Video In: Connect the composite video output of a laser disc player to this jack.

- R LD S Video In: Connect the "S" video output of a laser disc player to
- S LD Digital In: Connect the coax digital output of a laser disc or CD player to this jack.
- NOTE: This connection is for standard, two channel PCM audio, DO NOT connect the modulated RF digital output used for multichannel (AC-3) audio to this jack.
- TV Monitor Video Out: Connect this jack to the composite video input of a TV monitor or video projector to view the on screen control menus and output of the receiver's video switcher.
- TV Monitor S Video Out: Connect this jack to the S video input of a TV monitor or video projector to view S video sources selected by the receiver's video switcher

Information Display

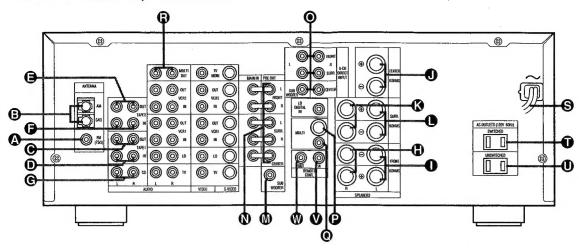


- 1 "Visual" Indicator: These indicators display which input source is being fed to the video monitor output.
- 2 Test: This indicator flashes when the output levels are being set using the built in test signal generator.
- Memo: This indicator flashes when the Memo button is pressed when entering presets and other information into the tuner's memory.
- 4 Auto: This indicator signifies that the Automatic Tuning mode is in use for FM broadcasts.
- **5 Tuned:** This indicator lights when an AM or FM station is properly tuned and locked.

- 6 Stereo: This indicator lights when an FM station is broadcasting
- Volume indication: The last two indicators on the information display indicate the volume level. Note that OdB is the reference level, not an indication that there is no output.
- 1 Tuner Frequency Indication: When the tuner is in use, the main Information Display will show the preset channel number, if any, the frequency band and the station frequency. Indicators at the right side of the display show kHz when an LW or AM station is tuned or MHz when an FM station is tuned
- Main Information Display:
- This ten digit display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of the unit's operation.
- Multi: This indicator signifies that the AVR80 is sending a program source to a remote room location. Note that it may be illuminated even when the unit is "off" in the main listening room, signifying that operation continues at another location. When a remote command is being received via the Multi IR connection, this indicator will flash

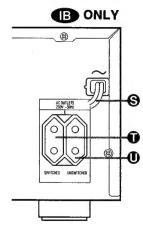
- **Mode Status:** These indicators display the currently selected surround mode
- DISP: This indicator lights when the FL display has been turned off using the Display button 10 to remind you that the unit is still turned on.
- ® Copy Indicators: The TAPE COPY indicator lights when an input other than the current source has been selected to copy Tape 1. The VCR COPYL indicator signifies that the input to VCR1 is other than the currently selected source.
- 1 P-Scan: This indicator flashes when the stations programmed into the tuner memory are being automatically reviewed.
- 13 Auto Memo: This indicator flashes when the tuner is automatically scanning for stations and entering them into the preset memory.
- (B) Signal Level Indication: This is a visual indication of the strength of a radio station signal. The more bars visible, the stronger the station.

Rear Panel - Audio and System Connections



- ♠ FM Antenna: Connect an indoor or external FM antenna to these terminals. Note that the supplied 300 ohm to 75 ohm adapter is required for connections from twin lead or inside dipole antennas.
- (3) AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the antenna.
- ♠ Tape 1 Out: Connect these jacks to the RECORD/INPUT jacks of an audio recorder.
- **Tape 1 In:** Connect these jacks to the PLAY/OUT jacks of an audio recorder.
- ♠ Tape 2 Out: Connect these jacks to the RECORD/INPUT jacks of a second audio recorder.
- **Tape 2 In:** Connect these jacks to the PLAY/OUT jacks of a second audio recorder.
- **© CD IN:** Connect these jacks to the output of a compact disc player or CD changer.
- **front L:** Connect these terminals to the front left speaker.
- Front R: Connect these terminals to the front right speaker.
- **① Center:** Connect these terminals to the center speaker.
- Surround L: Connect these terminals to the left surround speaker.

- **(b)** Surround R: Connect these terminals to the right surround speaker.
- ♠ Subwoofer Pre-Out: Connect this jack to the line level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input.
- Pre-Outs: If external power amplifiers are used for any channels, remove the connection pin and connect the jack to the input of the amplifier.
- 6 Channel Direct Input: If an external digital audio decoder is used for 5.1 (Dolby AC-3) audio, connect the outputs of that decoder to these terminals.
- Multi Room Interface: For multiroom installations where keypad remotes are in use, connect the keypad interface to this jack.
- Multi IR: Connect the output of an IR sensor in a remote room to this jack to operate the AVR80's multiroom control system.
- Multi-Out: When using the AVR 80 for multi-room audio, connect this jack to the input of the audio amplifier powering the remote room speakers.
- S Power Cable: Connect the AC plug to a non-switched AC wall output.



- Switched AC Outlet: This outlet may be used to power any device that you wish to have on when the unit is turned on.
- ① Unswitched AC Outlet: This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR80 is on or off.

NOTE: The power consumption of the device plugged into each of these outlets should not exceed 120 watts.

- ♠ Remote IR In: If the AVR80's front panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack.
- Remote IR Out: This connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment.

- A VCR 1 Audio In jacks to the audio F of a VCR.
- E VCR 1 Audio Ou these jacks to the R jacks of a VCR.
- C VCR 1 Video In jacks to the compo PLAY/OUT jacks of
- D VCR 1 Video Or jacks to the compo RECORD/IN jacks of
- E VCR 1 S Video these jacks to the " RECORD/IN jacks of
- VCR 1 S Video these jacks to the " RECORD/OUT jack

Information Displa

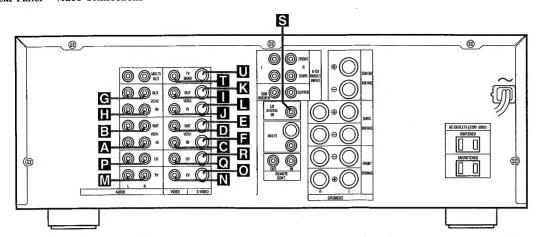
1 "Visual" Indicators display which being fed to the vice

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4 Auto: This indices the Automatic Tunifor FM broadcasts.

5 Tuned: This income an AM or FM station tuned and locked.



- 1 Audio In: Connect these the audio PLAY/OUT jacks
- 1 Audio Out: Connect ks to the RECORD/IN audio a VCR.
- 1 Video in: Connect these the composite video JT jacks of a VCR.
- 1 Video Out: Connect these the composite video D/IN jacks of a VCR.
- 1 S Video Out: Connect cks to the "S" video D/IN jacks of a VCR
- 1 S Video In: Connect cks to the "S" video D/OUT jacks of a VCR.

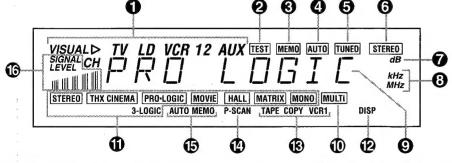
G VCR 2 Audio Out: Connect these jacks to the audio jacks RECORD/IN of a second VCR

- **II VCR 2 Audio In:** Connect these jacks to the audio PLAY/OUT jacks of a second VCR.
 - VCR 2 Video Out: Connect these jacks to the composite video RECORD/IN jacks of a second VCR.
 - J VCR 2 Video In: Connect these acks to the composite video PLAY/OUT jacks of a second VCR.
- VCR 2 S Video Out: Connect these jacks to the "S" video RECORD/IN jacks of a second VCR.
- UVCR 2 S Video In: Connect these jacks to the "S" video RECORD/OUT jacks of a second

- M TV Audio In: Connect the audio outputs of a TV, cable converter or satellite receiver to these jacks.
- N TV Video In: Connect the composite video output of a TV, cable converter or satellite receiver to this jack. The signals received at this jack are also used to trigger the TV Auto-On" feature.
- TV S Video In: Connect the "S" video output of a TV, cable converter or satellite receiver to this jack.
- D LD Audio In: Connect the audio output of a laser disc player to these jacks.
- LD Video In: Connect the composite video output of a laser disc player to this jack.

- LD S Video In: Connect the "S" video output of a laser disc player to this jack.
- S LD Digital In: Connect the coax digital output of a laser disc or CD player to this jack.
- NOTE: This connection is for standard, two channel PCM audio. DO NOT connect the modulated RF digital output used for multichannel (AC-3) audio to this jack.
- TV Monitor Video Out: Connect this jack to the composite video input of a TV monitor or video projector to view the on screen control menus and output of the receiver's video switcher.
- TV Monitor S Video Out: Connect this jack to the S video input of a TV monitor or video projector to view S video sources selected by the receiver's video

tion Display



- ual" Indicator: These indicaplay which input source is ed to the video monitor output.
- : This indicator flashes when out levels are being set using in test signal generator.
- o: This indicator flashes e Memo button is pressed ntering presets and other tion into the tuner's memory.
- : This indicator signifies that omatic Tuning mode is in use proadcasts.
- ed: This indicator lights when or FM station is properly nd locked.

- 6 Stereo: This indicator lights when an FM station is broadcasting in stereo.
- Volume indication: The last two indicators on the information display indicate the volume level. Note that OdB is the reference level, not an indication that there is no output.
- Tuner Frequency Indication: When the tuner is in use, the main Information Display will show the preset channel number, if any, the frequency band and the station frequency. Indicators at the right side of the display show kHz when an LW or AM station is tuned or MHz when an FM station is tuned.
- Main Information Display: This ten digit display shows mes-

sages relating to the status, input source, surround mode, tuner, volume level or other aspects of the unit's operation.

Multi: This indicator signifies that the AVR80 is sending a program source to a remote room location. Note that it may be illuminated even when the unit is "off" in the main listening room, signifying that operation continues at another location. When a remote command is being received via the Multi IR connection, this indicator will flash.

- **1 Mode Status:** These indicators display the currently selected surround mode.
- DISP: This indicator lights when the FL display has been turned off using the **Display** button 10 to remind you that the unit is still turned on.
- (B) Copy Indicators: The TAPE COPY indicator lights when an input other than the current source has been selected to copy Tape 1. The VCR COPY1 indicator signifies that the input to VCR1 is other than the currently selected source.
- P-Scan: This indicator flashes when the stations programmed into the tuner memory are being automatically reviewed.
- (B) Auto Memo: This indicator flashes when the tuner is automatically scanning for stations and entering them into the preset memory.
- (6) Signal Level Indication: This is a visual indication of the strength of a radio station signal. The more bars visible, the stronger the station.

SERVICE PROCEDURE

1. Tracking point memory

This service procedure can be used for measurement of the tuner circuit.

With the POWER ON, press the "PRESET UP" button while pressing the "MEMO" button for at least 3 seconds or more. FLD will display "TRACKING". Frequencies will be memorized as follows:

	VERSION	P1 P2		Р3	P4	
FM	BK B	90.0	98.0	106.0	87.5	

	SCAN STEP	P5	P6	P 7	P8	P9	P10	P11	P12~ P30
мw	10 KHz	600.0	1000.0	1400.0	520.0	, ←	4	←	←
	9 KHz	603.0	999.0	1404.0	531.0	+	4	+	4
	LW	1	†	1	171.0	207.0	270.0	152.0	531.0

2. FLD segment illumination

This service procedure will illuminate all segments by the following steps:

With the POWER ON, press the "FM/AM(TUNER)" button while pressing the "MEMO" button for at least 3 seconds or more. This procedure takes 1 minute and 40 seconds to finish; at this point the procedure is complete.

- 1. All segments will be illuminated for 5 seconds.
- 2. At the grid "1G", segments are illuminated in the following order:

(1) KHz
$$\rightarrow$$
 (2) MHz \rightarrow (3) R \rightarrow (4) PEAK \rightarrow (5) L \rightarrow (6) MULT $i \rightarrow$ (7) MONO \rightarrow (8) MATRIX \rightarrow

(9) HALL
$$\rightarrow$$
 (10) P-SCAN \rightarrow (11) TAPE \rightarrow (12) COPY \rightarrow (13) VCR1 \rightarrow (14) SLEEP \rightarrow (15) DISP \rightarrow (16) TX

- 3. At the grid "2G", to "11G", each segment is illuminated individually.
- 4. At the grid "12G", segments are illuminated in the following order:
- ① VISUAL \rightarrow ② SIGNAL LEVEL \rightarrow ③ CH \rightarrow ④ SIGNAL BAR (LEFT SIDE) \rightarrow
- (5) SIGNAL BAR (2nd LEFT) → (6) SIGNAL BAR (CENTER) → (7) SIGNAL BAR (2nd RIGHT) →
- ® SIGNAL BAR (RIGHT SIDE) → 9 STEREO → 10 THX CINEMA → 11 PRO LOGIC →
- ② MOVIE \rightarrow ③ AUTO MEMO \rightarrow ④ 3.LOGIC \rightarrow ⑤ SIMUL'D \rightarrow ⑥SURROUND

3. Selector check mode

This service program automatically operates input selector and surround mode by the following procedure. This service program continually repeats until power is shut off.

When the POWER ON, press the "SURROUND MODE+" button while pressing the "MEMO" button 3 seconds or more.

STEP	INPUT	DSP	FM MODE	FREQUENCY	COPYS	WITCH	NOTES
	SELECTOR	MODE	BAND		TAPE	VCR1	
1	FM	STEREO	AUTO	98.0	SOURCE	SOURCE	
2	FM	STEREO	MONO	LAST	1	1	
3	CD	THX	AUTO	LAST	†	†	
4	TAPE1	P-LOGIC	AUTO	LAST	TUNER	SOURCE	TUNER-ON
5	TAPE2	MOVIE	AUTO	LAST	SOURCE	TV	
6	TV	3 CH	AUTO	LAST	1	SOURCE	
7	TV	HALL	AUTO	LAST	CD	LD	
8	LD	MATRIX	AUTO	LAST	TAPE2	TV	
9	VCR1	MONO	AM/MW	1000/999	TUNER	VCR2	
10	VCR2	STEREO	AUTO	98.0	TUNER	SOURCE	TUNER-ON
11	AUX	THX	AUTO	LAST	SOURCE	AUX	

4. All clear

This service program can clear all memorized operations and functions.

When the POWER ON, press the "CLEAR" button while pressing the "MEMO" button 3 seconds or more. FLD shows "CLEAR MEMO" and power will be OFF.

TEST EQUIPMENT REQUIRED

- 1) AM/FM Signal Generator
- 2) Video Signal Generator
- 3) Digital Multimeter
- 4) Distortion level meter

ALIGNMENT PROCEDURES

1. FM MONO. Distortion Adjustment

Step	Input Signal Source	Signal	Source Signal Output Level	Reception	Adjustment	Adjustment
	Connection	Frequency	and Modulation	Frequency	Point	Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	500 uV/m (54 dB/m) MONO 1 KHz / Dev.40KHz 53.3% B MONO 1KHz / Dev. 75KHz 100% BR	98 MHz (P2)	L201	Distortion level Minimum at TAPE-OUT

2. FM Muting Level Adjustment

Turn variable resistor R212 and stop at position "TUNED" is not shown (not indicated), then again turn the variable resistor R212 to the opposite revolution and stop at a position "TUNED" is shown.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	10 uV/m (20 dB/m) MONO 1 KHz / Dev.40KHz 53.3% B MONO 1KHz / Dev. 75KHz 100% BK	98 MHz (P2)	R212	"TUNED" indicate on FLD
2			Over mentioned level +3 dB	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

3. FM STEREO Distortion Adjustment

Adjust the L channel with the RF signal modulated only L channel first and confirm the R channel with the RF signal modulated only R channel.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	500 uV/m (54 dB/m) L+R 1KHz/ Dev. 40KHz 53.3% PILOT 19KHz/ Dev. 6KHz 8%	98 MHz (P2)	IF COIL in FRONT END	Distortion level MinImum at TAPE-OUT
2			L+R 1KHz / Dev. 67.5KHz 90% PILOT 19KHz / Dev. 6.75KHz 9%		R218	Distortion level Minimum at TAPE-OUT

REMARK: Adjustment with R128 is not necessary when the distortion level is less than 0.5% with adjusting IF coil.

4. FM STEREO Separation Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	same specification as FM STEREO distortion adjustment. Input only L channel.	98 MHz (P2)	R211	Output level Minimum at TAPE-OUT channel R
2		98 MHz	same specification as FM STEREO distortion adjustment. Input only R channel.	98 MHz (P2)	R211	Output level Similar as Rch at TAPE-OUT channel L

7

SERVICE PROCEDURE

1. Tracking point memory

This service procedure can be used for measurement of the tuner circuit.

With the POWER ON, press the "PRESET UP" button while pressing the "MEMO" button for at least 3 seconds or more. FLD will display "TRACKING". Frequencies will be memorized as follows:

	VERSION	P1	P2	Р3	P4	
FM		90.0	98.0	106.0	87.5	

	SCAN STEP	P5	P6	P7	P8	P9	P10	P11	P12~ P30
	10 KHz	600.0	1000.0	1400.0	520.0	4	↓	+	-
MW	9 KHz	603.0	999.0	1404.0	531.0	+	+	ļ	←
	LW	†	1	1	171.0	207.0	270.0	152.0	531.0

2. FLD segment illumination

This service procedure will illuminate all segments by the following steps:

With the POWER ON, press the "FM/AM(TUNER)" button while pressing the "MEMO" button for at least 3 seconds or more. This procedure takes 1 minute and 40 seconds to finish; at this point the procedure is complete.

- 1. All segments will be illuminated for 5 seconds.
- 2. At the grid "1G", segments are illuminated in the following order:

① KHz
$$\rightarrow$$
 ② MHz \rightarrow ③ R \rightarrow ④ PEAK \rightarrow ⑤ L \rightarrow ⑥ MULTI \rightarrow ⑦ MONO \rightarrow ⑧ MATRIX \rightarrow

- 3. At the grid "2G", to "11G", each segment is illuminated individually.
- 4. At the grid "12G", segments are illuminated in the following order:
- ① VISUAL \rightarrow ② SIGNAL LEVEL \rightarrow ③ CH \rightarrow ④ SIGNAL BAR (LEFT SIDE) \rightarrow
- ⑤ SIGNAL BAR (2nd LEFT) \rightarrow ⑥ SIGNAL BAR (CENTER) \rightarrow ⑦ SIGNAL BAR (2nd RIGHT) \rightarrow
- 8 SIGNAL BAR (RIGHT SIDE) → 9 STEREO → 10 THX CINEMA → 11 PRO.LOGIC →
- ② MOVIE \rightarrow ③ AUTO MEMO \rightarrow ④ 3.LOGIC \rightarrow ⑤ SIMUL'D \rightarrow ⑥SURROUND

3. Selector check mode

This service program automatically operates input selector and surround mode by the following procedure. This service program continually repeats until power is shut off.

When the POWER ON, press the "SURROUND MODE+" button while pressing the "MEMO" button 3 seconds or more.

STEP	INPUT	DSP	FM MODE	FREQUENCY	COPYS	WITCH	NOTES
	SELECTOR	MODE	BAND		TAPE	VCR1	
1	FM	STEREO	AUTO	98.0	SOURCE	SOURCE	
2	FM	STEREO	MONO	LAST	†	1	
3	CD	THX	AUTO	LAST	1	1	
4	TAPE1	P-LOGIC	AUTO	LAST	TUNER	SOURCE	TUNER-ON
5	TAPE2	MOVIE	AUTO	LAST	SOURCE	TV	
6	TV	3 CH	AUTO	LAST	1	SOURCE	
7	TV	HALL	AUTO	LAST	CD	LD	
8	LD	MATRIX	AUTO	LAST	TAPE2	TV	
9	VCR1	MONO	AM/MW	1000/999	TUNER	VCR2	
10	VCR2	STEREO	AUTO	98.0	TUNER	SOURCE	TUNER-ON
11	AUX	THX	AUTO	LAST	SOURCE	AUX	

4. All clear

This service program can clear all memorized operations and functions.

When the POWER ON, press the "CLEAR" button while pressing the "MEMO" button 3 seconds or more. FLD shows "CLEAR MEMO" and power will be OFF.

TEST EQUIPMENT REQUIRED

- 1) AM/FM Signal Generator
- 2) Video Signal Generator
- 3) Digital Multimeter
- 4) Distortion level meter

ALIGNMENT PROCEDURES

1. FM MONO. Distortion Adjustment

Step	Input Signal Source	Signal	Source Signal Output Level	Reception	Adjustment	Adjustment
	Connection	Frequency	and Modulation	Frequency	Point	Value
	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	500 uV/m (54 dB/m) MONO 1 KHz / Dev.40KHz 53.3% B MONO 1KHz / Dev. 75KHz 100% BR	98 MHz (P2)	L201	Distortion level Minimum at TAPE-OUT

2. FM Muting Level Adjustment

Turn variable resistor R212 and stop at position "TUNED" is not shown (not indicated), then again turn the variable resistor R212 to the opposite revolution and stop at a position "TUNED" is shown.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)		10 uV/m (20 dB/m) MONO 1 KHz / Dev.40KHz 53.3% IB MONO 1KHz / Dev. 75KHz 100% BK	98 MHz (P2)	R212	"TUNED" indicate on FLD
2			Over mentioned level +3 dB	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

3. FM STEREO Distortion Adjustment

Adjust the L channel with the RF signal modulated only L channel first and confirm the R channel with the RF signal modulated only R channel.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	500 uV/m (54 dB/m) L+R 1KHz / Dev. 40KHz 53.3% PILOT 19KHz / Dev. 6KHz 8%	98 MHz (P2)	IF COIL in FRONT END	Distortion level Minimum at TAPE-OUT
2			L+R 1KHz / Dev. 67.5KHz 90% PILOT 19KHz / Dev. 6.75KHz 9%		R218	Distortion level Minimum at TAPE-OUT

REMARK: Adjustment with R128 is not necessary when the distortion level is less than 0.5% with adjusting IF coil.

4. FM STEREO Separation Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 ohm)	98 MHz	same specification as FM STEREO distortion adjustment. Input only L channel.	98 MHz (P2)	R211	Output level Minimum at TAPE-OUT channel R
2		98 MHz	same specification as FM STEREO distortion adjustment. Input only R channel.	98 MHz (P2)	R211	Output level Similar as Rch at TAPE-OUT channel L

5. AM iF Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 KHz B 1000 KHz	300 uV/m (50 dB/m)	Tuning point	LA06	Output level (L or R) Maximum at TAPE-OUT

This adjustment is normally not necessary, because the coil LA06 is preset by the original supplier.

6. AM Tracking Adjustment (MW)

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value		
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 KHz B 600 KHz BK	Level 300 - 400 uV/m Mod. 400 Hz 30%	603 KHz B 600 KHz	LA01	Output level (L or R) Maximum at TAPE-OUT		
2		1404 KHz IB 1400 KHz BK	Level 300 - 400 uV/m Mod. 400 Hz 30%	1404 KHz IB 1400 KHz BK	CA01	Output level (L or R) Maximum at TAPE-OUT		
3	Repeat step 1 and 2 until level is at maximum reading.							

7. AM Tracking Adjustment (LW)

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value			
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	171 KHz	Level 300 - 400 uV/m Mod. 400 Hz 30%	171 KHz	LA03	Output level (L or R) Maximum at TAPE-OUT			
2		270 KHz	Level 300 - 400 uV/m Mod. 400 Hz 30%	270 KHz	CA08	Output level (L or R) Maximum at TAPE-OUT			
3	3 Repeat step 1 and 2 until level is at maximum reading.								

8. AM auto stop Adjustment

Step	lep Input Signal Source Signal Frequency		· · · · · · · · · · · · · · · · · · ·		Adjustment Point	Adjustment Value	
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)		500 uV/m (54 dB/m)	999 KHz IB 1000 KHz	RA11	"TUNED" indicate on FLD	
2			1000 uV/m (60 dB/m)	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD	

REMARK: This adjustment is related to the FM muting Level Adjustment. The FM muting Level re-adjustment is necessary after this adjustment.

9. On Screen Display VCO Adjustment

Step	Input Signal Source and Connection	Measuring position	Measuring equipment	Input selector	Adjustment Point	Adjustment Value
1	Color bar or other standard video signal. Video signal generator output to LD video input.	IC QX60 26pin and GND.	DC voltmeter (Impedance > 10K ohm/V)	LD	СХ67	2.5V +-0.1V

REMARK: Connect the TV monitor to the monitor output terminal of the product.

10. Main amp idling current adjustment

- 1) With the power OFF, set semi fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) on the PC board (PV04) to the center position.
- 2) Connect a digital voltmeter, set for the DC range, on the emitter resistor [R759 (Lch), R760 (Rch), R794 (Center ch)] on the PC board (PV04).
- 3) After the above, adjust the idling current as follows: Turn the power ON and adjust semi – fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) while observing the digital multimeter indication. The target value is 7.2 mV (20 mA).

All values are with no load on speaker terminals, volume set to minimum and no input with the unit switched to the CD position. Always allow the amplifier to stabilize for 10 minutes or longer prior to adjusting idle current.

11. Main amp DC offset adjustment

- 1) With the power OFF, connect a digital voltmeter, set for the DC range, to the speaker terminal.
- After the above, adjust the DC offset as follows: Turn the power ON and adjust RN63 (Lch), RN64 (Rch), RN70 (Center ch) so that the output is ±20 mV.

5. AM IF Adjustment

Step	Input Signal Source	Signal	Source Signal Output Level	Reception	Adjustment	Adjustment	
	Connection	Frequency	and Modulation	Frequency	Point	Value	
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 KHz IB 1000 KHz BK	300 uV/m (50 dB/m)	Tuning point	LA06	Output level (L or R) Maximum at TAPE-OUT	

This adjustment is normally not necessary, because the coil LA06 is preset by the original supplier.

6. AM Tracking Adjustment (MW)

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 KHz B 600 KHz	Level 300 - 400 uV/m Mod. 400 Hz 30%	603 KHz IB 600 KHz BK	LA01	Output level (L or R) Maximum at TAPE-OUT
2		1404 KHz B 1400 KHz	Level 300 - 400 uV/m Mod. 400 Hz 30%	1404 KHz IB 1400 KHz BR	CA01	Output level (L or R) Maximum at TAPE-OUT
3	Repeat step 1 and 2 until leve	BK				*****

7. AM Tracking Adjustment (LW)

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value		
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	171 KHz	Level 300 - 400 uV/m Mod. 400 Hz 30%	171 KHz	LA03	Output level (L or R) Maximum at TAPE-OUT		
2		270 KHz	Level 300 - 400 uV/m Mod. 400 Hz 30%	270 KHz	CA08	Output level (L or R) Maximum at TAPE-OUT		
3								

8. AM auto stop Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)		500 uV/m (54 dB/m)	999 KHz IB 1000 KHz BK	RA11	"TUNED" indicate on FLD
2			1000 uV/m (60 dB/m)	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

REMARK: This adjustment is related to the FM muting Level Adjustment. The FM muting Level re-adjustment is necessary after this adjustment.

9. On Screen Display VCO Adjustment

,	Step	Input Signal Source and Connection	Measuring position	Measuring equipment	Input selector	Adjustment Point	Adjustment Value
	1	Color bar or other standard video signal. Video signal generator output to LD video input.	IC QX60 26pin and GND.	DC voltmeter (Impedance > 10K ohm/V)	LD	CX67	2.5V +-0.1V

REMARK: Connect the TV monitor to the monitor output terminal of the product.

10. Main amp idling current adjustment

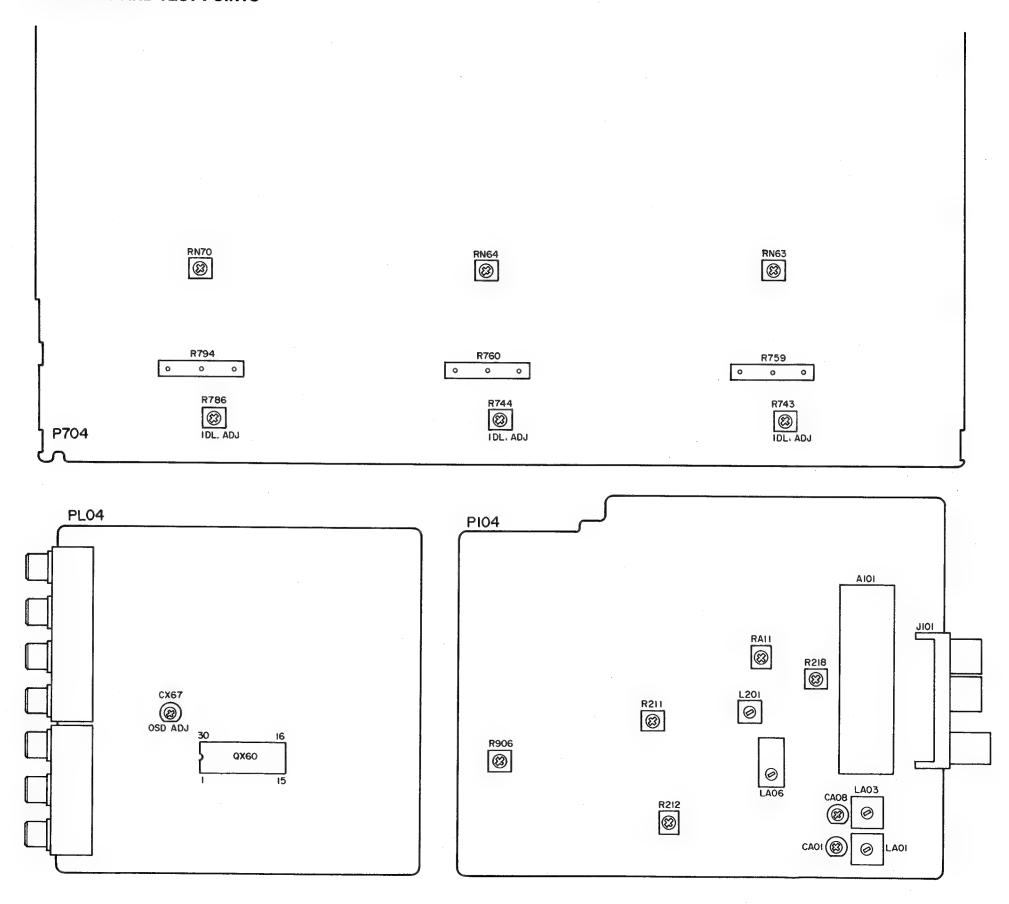
- With the power OFF, set semi fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) on the PC board (PV04) to the center position.
- Connect a digital voltmeter, set for the DC range, on the emitter resistor [R759 (Lch), R760 (Rch), R794 (Center ch)] on the PC board (PV04).
- 3) After the above, adjust the idling current as follows: Turn the power ON and adjust semi – fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) while observing the digital multimeter indication. The target value is 7.2 mV (20 mA).

All values are with no load on speaker terminals, volume set to minimum and no input with the unit switched to the CD position. Always allow the amplifier to stabilize for 10 minutes or longer prior to adjusting idle current.

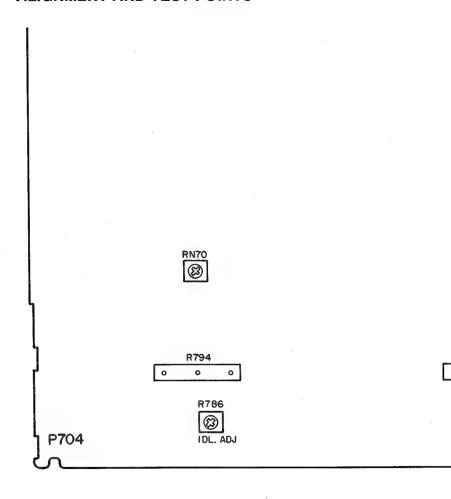
11. Main amp DC offset adjustment

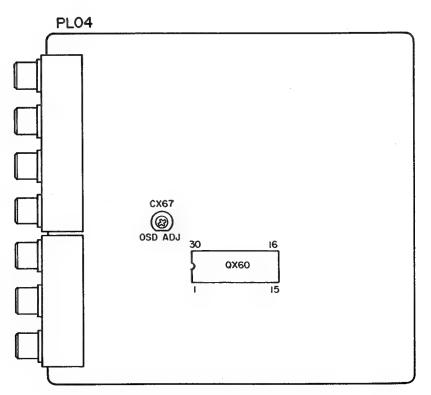
- 1) With the power OFF, connect a digital voltmeter, set for the DC range, to the speaker terminal.
- After the above, adjust the DC offset as follows: Turn the power ON and adjust RN63 (Lch), RN64 (Rch), RN70 (Center ch) so that the output is ±20 mV.

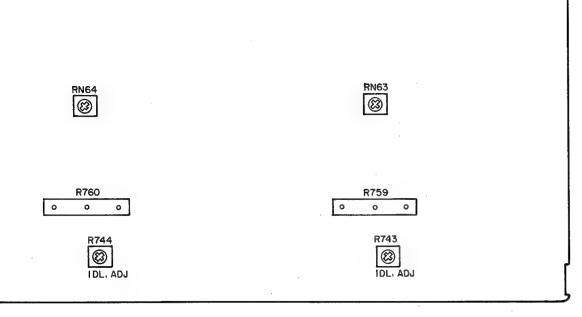
ALIGNMENT AND TEST POINTS

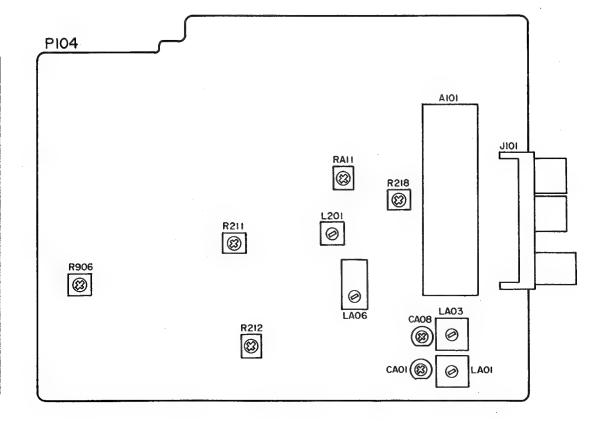


ALIGNMENT AND TEST POINTS







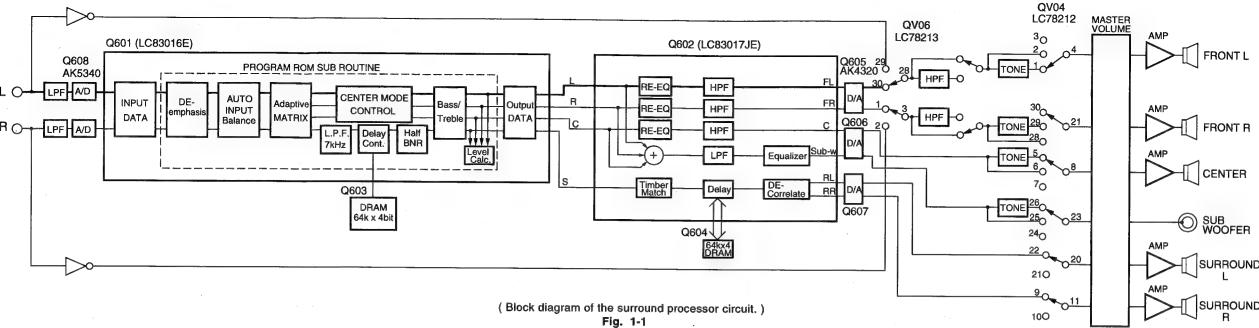


CIRCUIT DESCRIPTION

1. SURROUND CIRCUIT

This model incorporates a surround processor circuit that provides 6 types of the surround sound. Fig. 1-1 is a block diagram of the surround processor circuit.

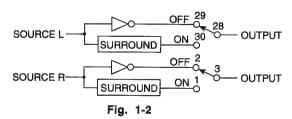
The microprocessor transfers the data to the parameter control (Serial data, Serial clock, Request Ready) to operate the circuits in each mode.



(1) Stereo

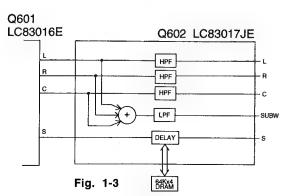
Set to this mode to listen to ordinary stereo sound. The rear L/R and center outputs will be muted.

Q706 LC78213



(2) THX Cinema

The IC Q602 (LC83017E) is a THX Cinema decoder IC. IC Q602 (LC83017E) divides the 4 channel signals (Left, Right, Center and Surround) sourcing from IC Q601 (LC83016E) into 6 channel signals (Left, Right, Center, Surround Left, Surround Right and Sub Woofer).



(3) Dolby pro logic

Q601 (LC8316E) is a Dolby pro logic decoder IC. When an audio signal recorded using the Dolby pro logic system is sent to this IC, the left, right, center and surround components are separated. The surround signal component is delayed by the digital delay circuit by 15-30 mS and is sent to the modified B-type decoder Q601 where noise reduction processing is performed.

(4) Movie, 3CH Logic Hall, Matrix

The Movie mode provides the feeling of presence you get from a 35-mm movie in a movie theater. 3CH Logic mode is used to improve the sound field center by applying directivity enhancement provided by the Dolby Pro Logic Surround decoder.

Hall mode provides a sound-field effect of mediumsized circular hall with rich reverberations.

Matrix mode is effective for playing sports broadcasts or outdoor live concerts. It provides a surround mode with a wide surround effect.

All the connections of the circuits are the same in these modes. Q601, controlled by the microprocessor, processes the audio signals to produce various sound effects and creates surround components to use them as signals to drive the surround channel.

2. CENTER MODE

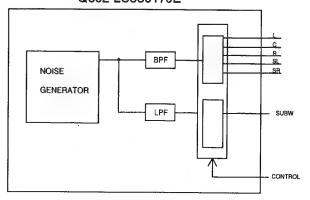
With Dolby pro logic, three center modes depend on the use of a center speaker as follows:

	: Bass frequencies are sent only to the Left and Right Front channels. Select this mode when the Center Speaker is smaller than the Left and Right speakers.
WIDE	Bass frequencies are sent to the Left, Center and Right speakers. Select this mode when the Center speaker is approximately the same size as the Left and Right speakers.
PHANTOM	: Center channel information is sent to the Left and Right speakers. Select this mode when you do not have a center channel speaker.

3. TEST TONE GENERATOR

The test tone generator generates a test tone (noise) to check the balance of sound output from each speaker in the THX CINEMA MODE, (This circuit is produced under license of Lucasfilm Ltd.) and the Dolby pro logic mode. (This circuit is produced under license of the Dolby Laboratories Licensing Corp.)

Q602 LC83017JE



(Flow of noise signals within the system.)

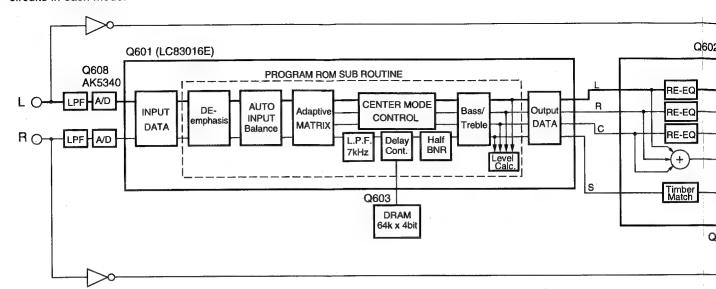
Fig. 3

CIRCUIT DESCRIPTION

1. SURROUND CIRCUIT

This model incorporates a surround processor circuit that provides 6 types of the surround sound. Fig. 1-1 is a block diagram of the surround processor circuit.

The microprocessor transfers the data to the parameter control (Serial data, Serial clock, Request Ready) to operate the circuits in each mode.



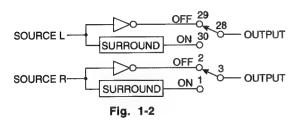
(Block diagram of the surround prod

Fig. 1-1

(1) Stereo

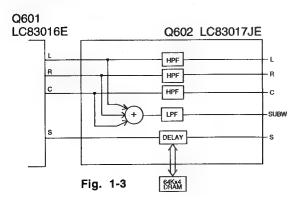
Set to this mode to listen to ordinary stereo sound. The rear L/R and center outputs will be muted.

Q706 LC78213



(2) THX Cinema

The IC Q602 (LC83017E) is a THX Cinema decoder IC. IC Q602 (LC83017E) divides the 4 channel signals (Left, Right, Center and Surround) sourcing from IC Q601 (LC83016E) into 5 channel signals (Left, Right, Center, Surround Left, Surround Right and Sub Woofer).



(3) Dolby pro logic

Q601 (LC8316E) is a Dolby pro logic decoder IC. When an audio signal recorded using the Dolby pro logic system is sent to this IC, the left, right, center and surround components are separated. The surround signal component is delayed by the digital delay circuit by 15-30 mS and is sent to the modified B-type decoder Q601 where noise reduction processing is performed.

(4) Movie, 3CH Logic Hall, Matrix

The Movie mode provides the feeling of presence you get from a 35-mm movie in a movie theater. 3CH Logic mode is used to improve the sound field center by applying directivity enhancement provided by the Dolby Pro Logic Surround decoder.

Hall mode provides a sound-field effect of mediumsized circular hall with rich reverberations.

Matrix mode is effective for playing sports broadcasts or outdoor live concerts. It provides a surround mode with a wide surround effect.

All the connections of the circuits are the same in these modes. Q601, controlled by the microprocessor, processes the audio signals to produce various sound effects and creates surround components to use them as signals to drive the surround channel.

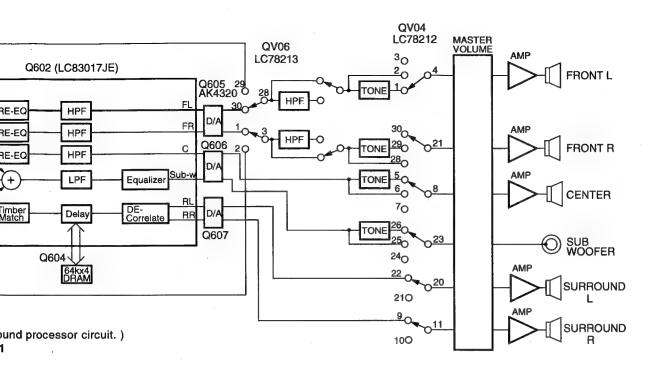
2. CEN

With Do

NOR

WIDE

РНА



2. CENTER MODE

With Dolby pro logic, three center modes depend on the use of a center speaker as follows :

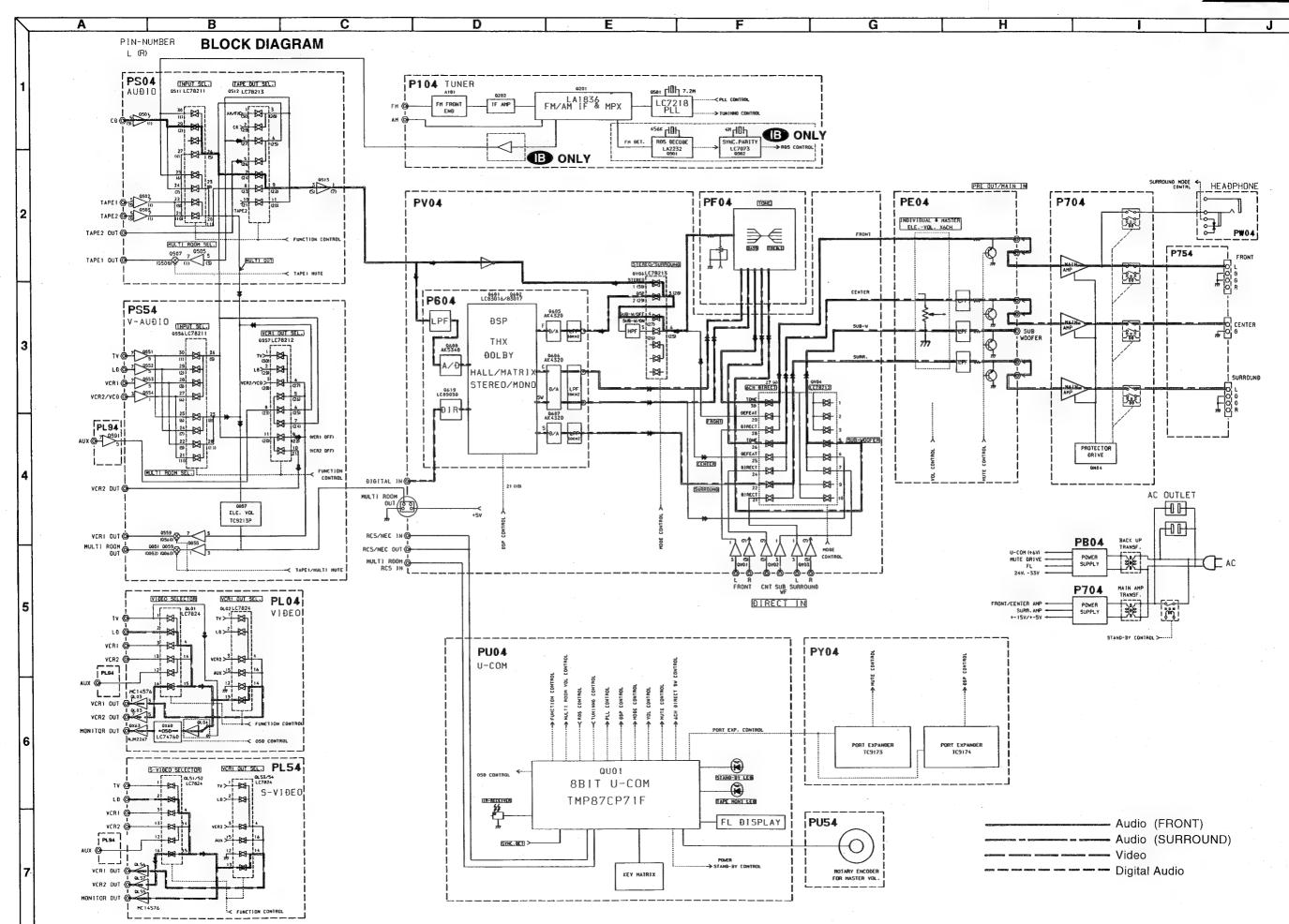
NORMAL	Bass frequencies are sent only to the Left and Right Front channels. Select this mode when the Center Speaker is smaller than the Left and Right speakers.
WIDE	Bass frequencies are sent to the Left, Center and Right speakers. Select this mode when the Center speaker is approximately the same size as the Left and Right speakers.
PHANTOM	Center channel information is sent to the Left and Right speakers. Select this mode when you do not have a center channel speaker.

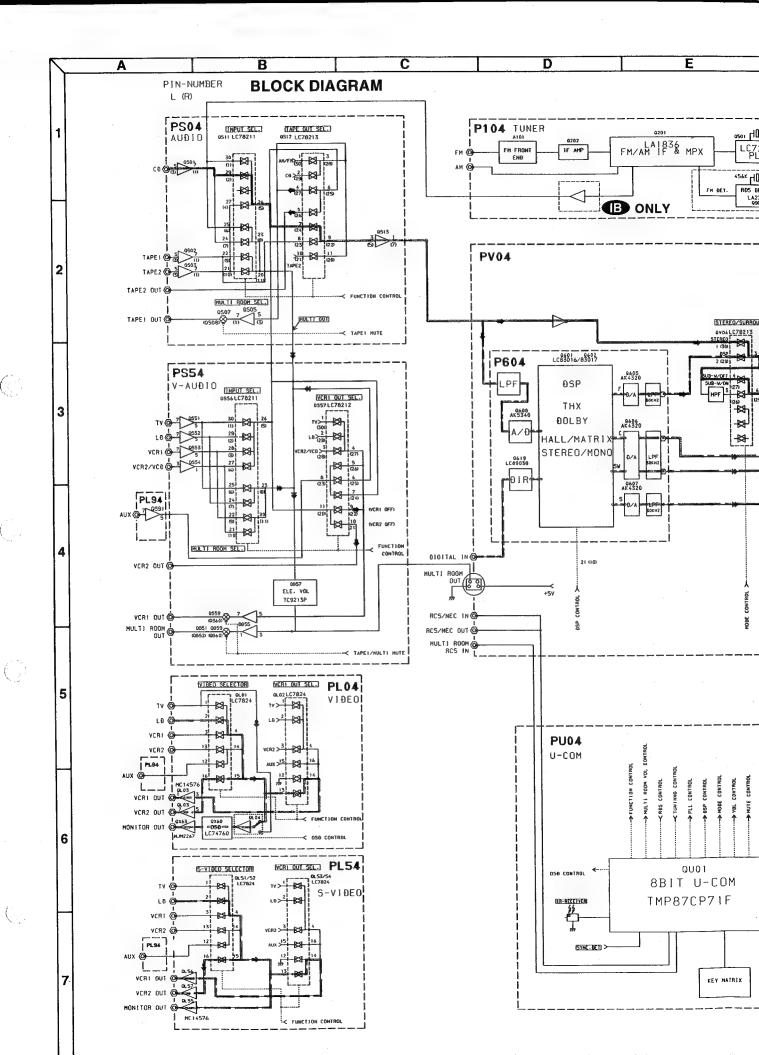
3. TEST TONE GENERATOR

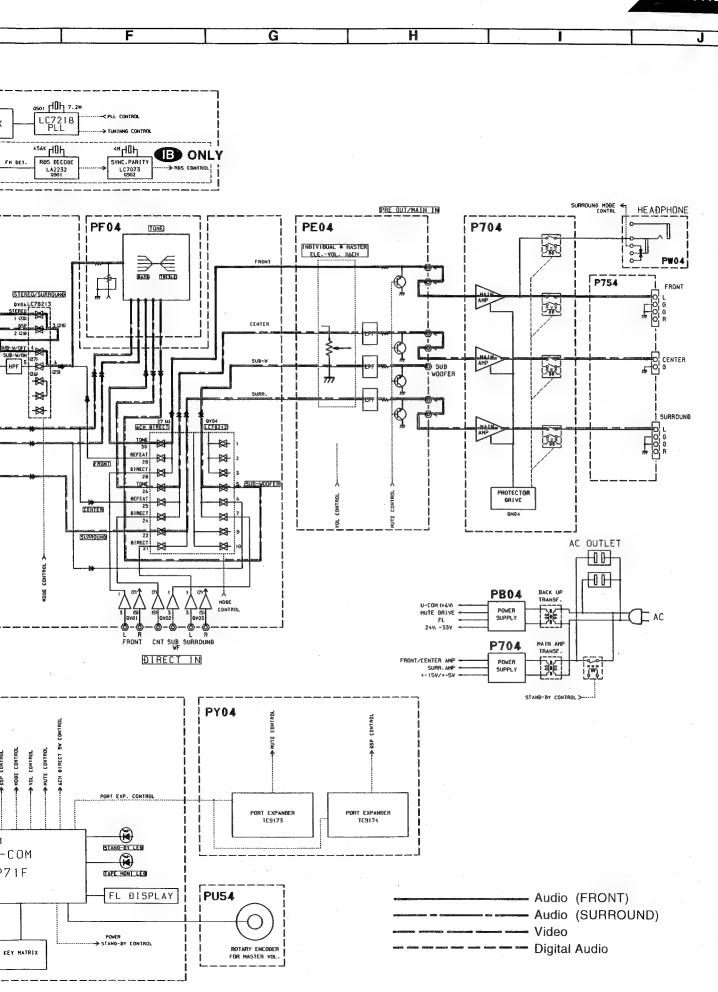
The test tone generator generates a test tone (noise) to check the balance of sound output from each speaker in the THX CINEMA MODE, (This circuit is produced under license of Lucasfilm Ltd.) and the Dolby pro logic mode. (This circuit is produced under license of the Dolby Laboratories Licensing Corp.)

Q602 LC83017JE NOISE GENERATOR BPF BR SI SI SI SI SI SI CONTROL

(Flow of noise signals within the system.) Fig. 3

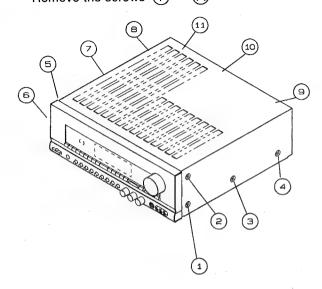




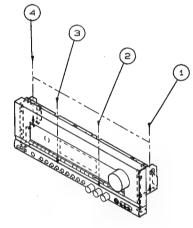


DISASSEMBLY PROCEDURES

1. Removing the top Cover
Remove the screws (1) ~ (11)



2. Removing the front panel Remove the screws 1 ~ 4



MAIN PCB BLOCK (P704)

- 1. Remove all of the screws on REAR PANEL. (900G)
- 2. Remove the REAR PANEL.
- 3. Remove the SPEAKER TERMINAL PCB. (P754)
- 4. Remove the screw x4 for MAIN PCB mounting.
- Remove the screw x2 for both sides GIRD PCB of main heatsink.
- 6. Remove the both sides GIRD PCB.
- 7. Remove the screw x4 for MAIN PCB BLOCK mounting.
- 8. Remove the MAIN PCB BLOCK.

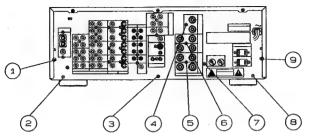
POWER SUPPLY PCB (PB04)

- 1. Remove the screw x2 for TRANSF mounting.
- Remove the screw x2 for POWER SUPPLY PCB mounting.
- 3. Remove the POWER SUPPLY PCB.

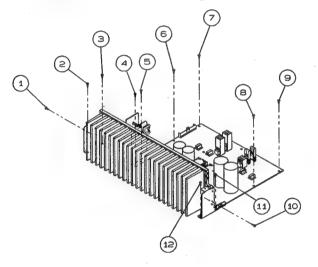
MAIN VOL PCB (PU54)

- 1. Remove the MAIN VOL KNOB. (035B)
- 2. Remove the MAIN VOL NUT.
- 3. Pull out the MAIN VOL PCB.

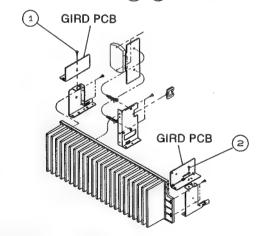
3. Removing the rear panel Remove the screws 1 ~ 9



4. Removing the main PCB Block Remove the screws 1 ~ 12



5. Removing the shield plate Remove the screws (1) (2)



TONE VOL PCB (PF04)

- 1. Remove the three TONE VOL KNOBS. (036B)
- 2. Remove the three TONE VOL NUTS.
- 3. Pull out the TONE VOL PCB.

FRONT FUNCTION PCB (PU04)

- Remove the screw x4 for FRONT PANEL ASSY mounting.
- 2. Lay down the FRONT PANEL ASSY.
- 3. Remove the screw x16 for FRONT FUNCTION PCB.
- 4. Remove the FRONT FUNCTION PCB.

GENERAL UNIT PARTS LIST

260J861010

95109111D0

264J267010

264J160020

264J160030

261J104010

264J160060

090J101010

287S005010 009D267010

009D267010

001J267030

001J267030

309V267010

309V267010

260J123010

152J118030

306V259030

415T101010

915G

920G

001L

005L

009L

013L

015L

017L

020L

001K

002K

003K

004K

005K

007K

011K

012K

014K

061K

LABEL

LABEL BI

SUPPORT

HEATSINK

HEATSINK

HEATSINK

HEATSINK

HEATSINK

HEATSINK

SPACER

SUPPORT

CONTACTOR

BUSHING (B)

HEATSINK, MAIN

BRACKET, HEAT SINK (L)

BRACKET, HEAT SINK (R)

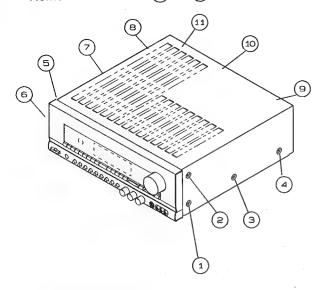
BRACKET, HEATSINK CENTER

RETAINER, MAIN PCB

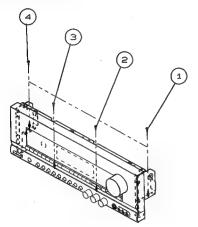
GENE	RAL UNI	T PARTS LIST					
Ref. No.	Part. No.	<u>Description</u>	<u>Q'TY</u>	Ref. No.	Part. No.	Description	Q'TY
001B	260J248020	FRONT PANEL IB	1	▲ L001	TS60513020	POWER TRANSF. 230V IB	1
001B	260J248010	FRONT PANEL BIS	1	▲ L001	TS60513010	POWER TRANSF. 120V BK	1
005B	260J105010	CHASSIS, FRONT	1	L002	FC50380010	FERRITE CORE IB	1
008B	260J158010	WINDOW	1	Y001	YQ01000080	SHORTING PLUG	1
010B	260J270010	BUTTON, FUNCTION	1	Y002	YQ01000080	SHORTING PLUG	1
013B	260J270510	BUTTON KIT, POWER	1	Y003	YQ01000080	SHORTING PLUG	1
014B	260J270040	BUTTON, POWER	1	Y004	YQ01000080	SHORTING PLUG	1
015B	260J355020	LENS, POWER	1	Y005	YQ01000080	SHORTING PLUG	1
017B	260J270020	BUTTON, MODE (B)	1	▲ W001	YC01800790	A.C POWER CORD IB	1
017B	260J270120	BUTTON, MODE BK	1	▲ W001	YC01800780	A.C POWER CORD BK	1
019B	183J271020	HOLDER, FL	1				
020B	056J122010	STICKER, FL	1	5110	51100306M0	B. H. M SCREW 5110 ø3x6 (M)	5
021B	4220005040	CLAMPER	1	5110	51100308A0	B. H. M SCREW 5110 ø3x8 (A)	4
023B	183J010010	SCREW, PHONE PCB	1	5126	51260308M0	B.T.SCREW(W/W) 5126 ø3x8 (M)	8
025B	264J160040	BRACKET, LEFT	1	5126	51260308U0	B.T.SCREW(W/W) 5126 ø3x8 (U)	11
027B	264J160050	BRACKET, RIGHT	1	5128	51280308M0	B. H. TAP. SCREW 5128 ø3x8 (M)	99
035B	063J154180	KNOB, MAIN VOL	1	5128	51280308U0	B. H. TAP. SCREW 5128 ø3x8 (U)	3
036B	042J154020	KNOB, TONE VOL	3	5128	51280325B0	B. H. TAP. SCREW 5128 ø3x25 (B)	2
001D	264J257110	LID, TOP COVER	1	5128	51280410U0	B. H. TAP. SCREW 5128 ø4x10 (U)	1
001G	264J105500	CHASSIS ASSEMBLY, MAIN	1	5128	51480310A0	F. WASHER SCREW 5148 ø3x10(A)	9
002G	264J105010	CHASSIS, MAIN	1.	5128	51480315M0	F. WASHER SCREW 5148 ø3x15(M)	2
003G	030J114010	STOPPER	1	5128	52040408M0	H. HEAD BOLT 5204 ø4x8 (M)	4
006G	227J056010	BUFFER	4				
007G	183J057010	LEG, FRONT	2				
008G	183J057110	LEG, REAR	2				
010G	264J160010	BRACKET, TRANSF.	1				
013G	260J271010	HOLDER, SUB TRANSF.	1				
016G	2218271020	HOLDER, PCB	7				
017G	054J101020	SUPPORT, MAIN PCB	3				
020G	137J861050	LABEL, FUSE BK	1				
022G	093J861010	LABEL, FUSE BK	1				
030G	136J101020	SUPPORT	1				
900G	260J250020	REAR PANEL IB	1				
900G	260J250010	REAR PANEL BK	1				
910G	450H259010	BUSHING, AC CODE	1				

DISASSEMBLY PROCEDURES

1. Removing the top Cover
Remove the screws (1) ~ (1)



2. Removing the front panel Remove the screws 1 ~ 4



MAIN PCB BLOCK (P704)

- 1. Remove all of the screws on REAR PANEL. (900G)
- 2. Remove the REAR PANEL.
- 3. Remove the SPEAKER TERMINAL PCB. (P754)
- 4. Remove the screw x4 for MAIN PCB mounting.
- Remove the screw x2 for both sides GIRD PCB of main heatsink.
- 6. Remove the both sides GIRD PCB.
- 7. Remove the screw x4 for MAIN PCB BLOCK mounting.
- 8. Remove the MAIN PCB BLOCK.

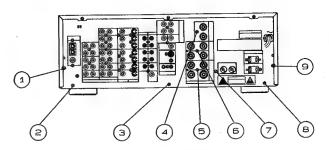
POWER SUPPLY PCB (PB04)

- 1. Remove the screw x2 for TRANSF mounting.
- Remove the screw x2 for POWER SUPPLY PCB mounting.
- 3. Remove the POWER SUPPLY PCB.

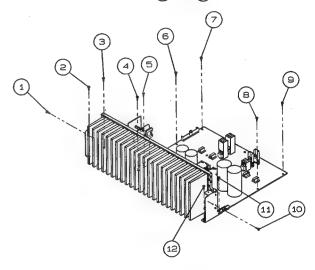
MAIN VOL PCB (PU54)

- 1. Remove the MAIN VOL KNOB. (035B)
- 2. Remove the MAIN VOL NUT.
- 3. Pull out the MAIN VOL PCB.

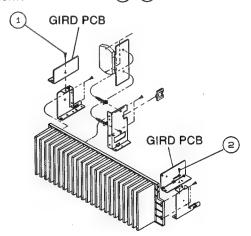
3. Removing the rear panel Remove the screws (1) ~ (9)



4. Removing the main PCB Block Remove the screws 1 ~ 12



5. Removing the shield plate Remove the screws (1) (2)



TONE VOL PCB (PF04)

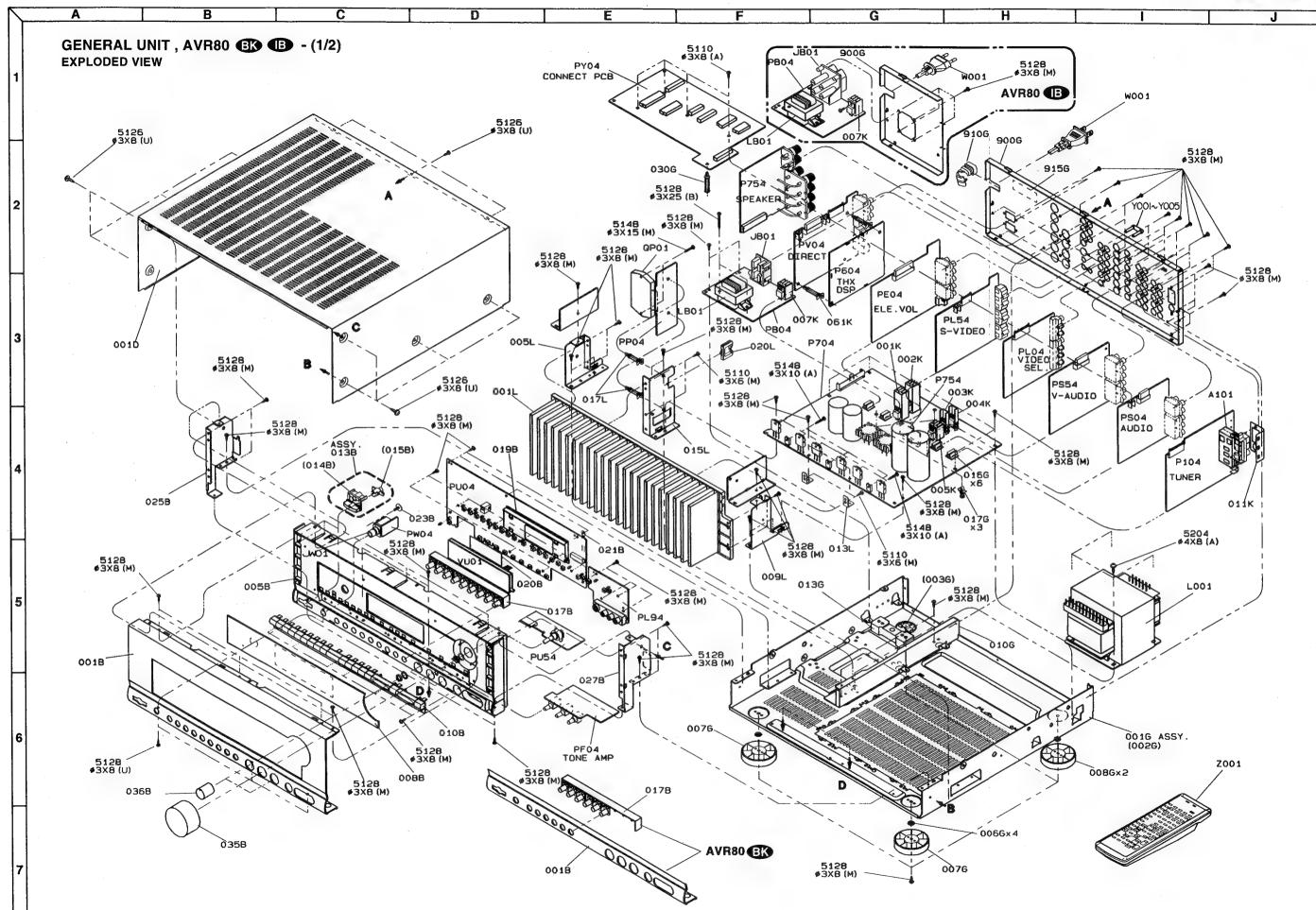
- 1. Remove the three TONE VOL KNOBS. (036B)
- 2. Remove the three TONE VOL NUTS.
- 3. Pull out the TONE VOL PCB.

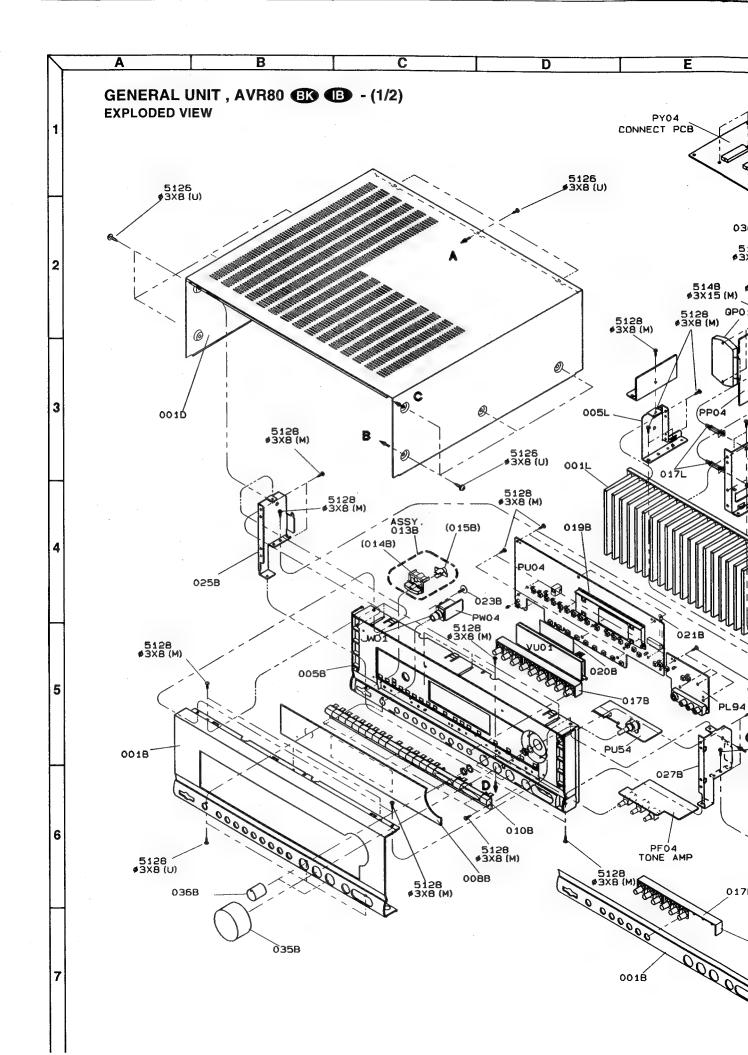
FRONT FUNCTION PCB (PU04)

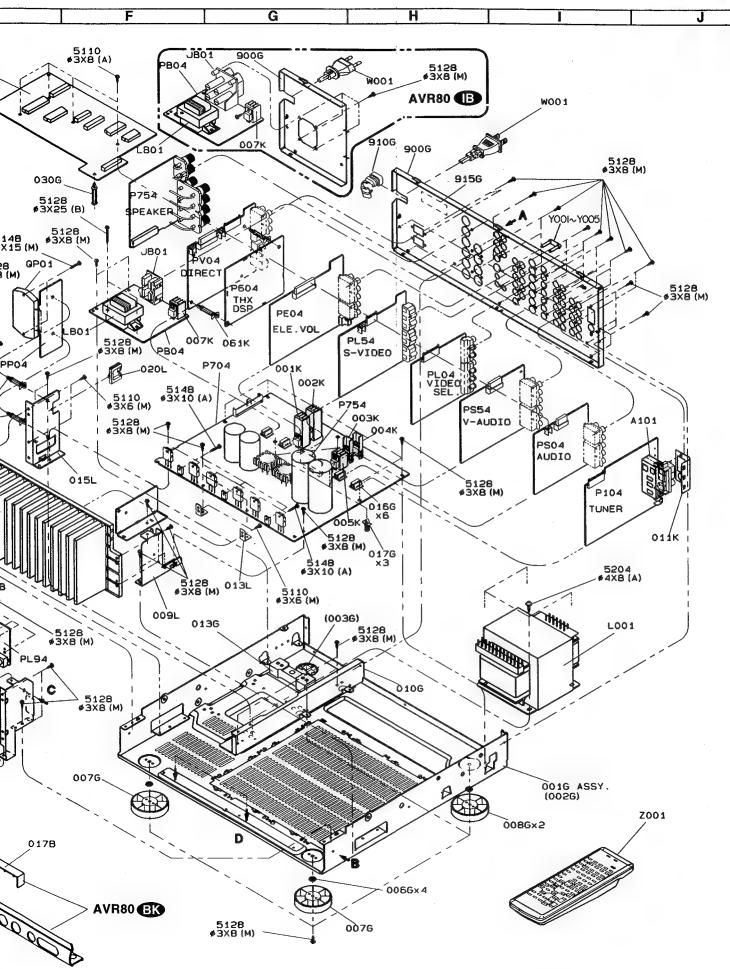
- Remove the screw x4 for FRONT PANEL ASSY mounting.
- 2. Lay down the FRONT PANEL ASSY.
- 3. Remove the screw x16 for FRONT FUNCTION PCB.
- 4. Remove the FRONT FUNCTION PCB.

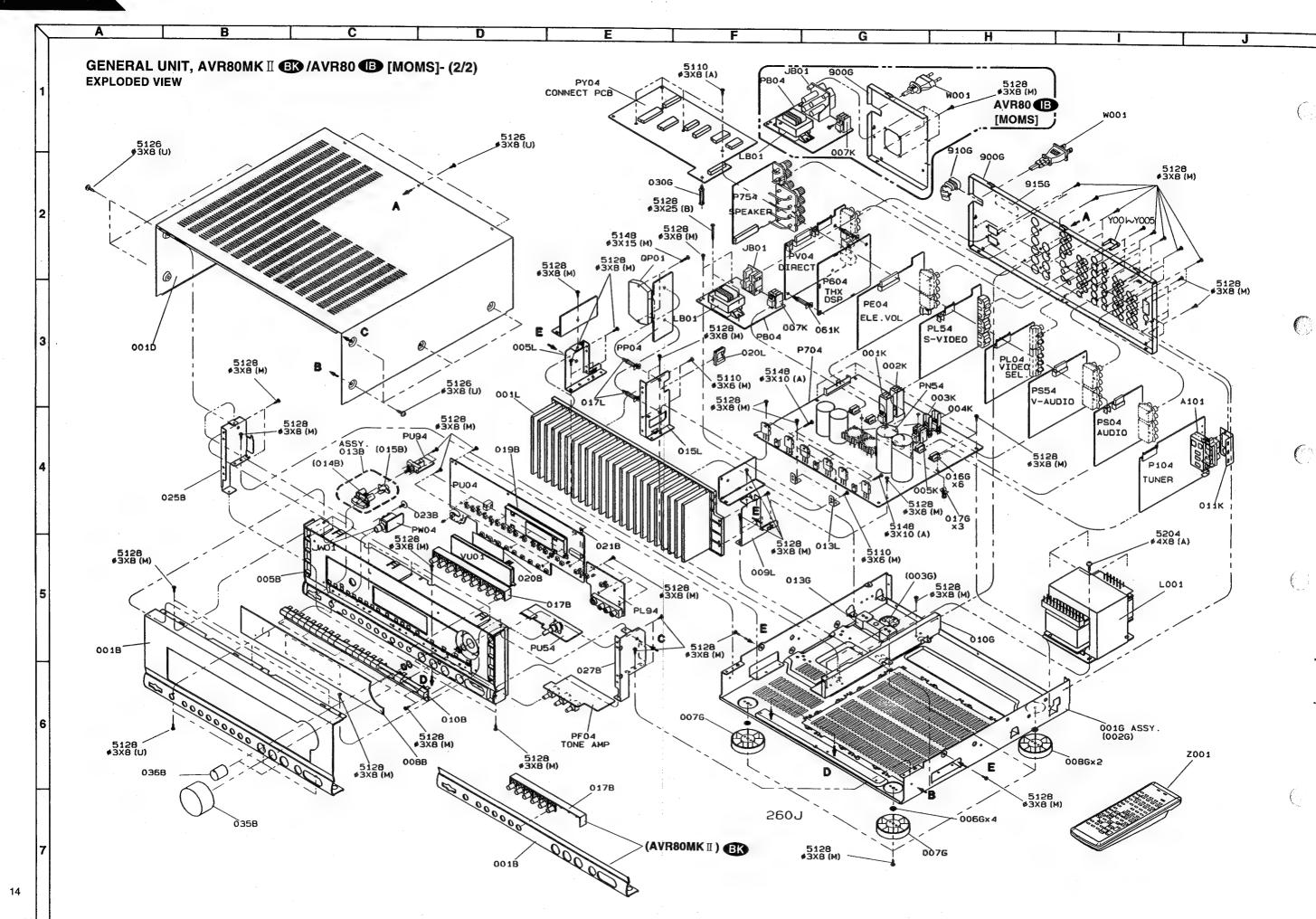
GENERAL UNIT PARTS LIST

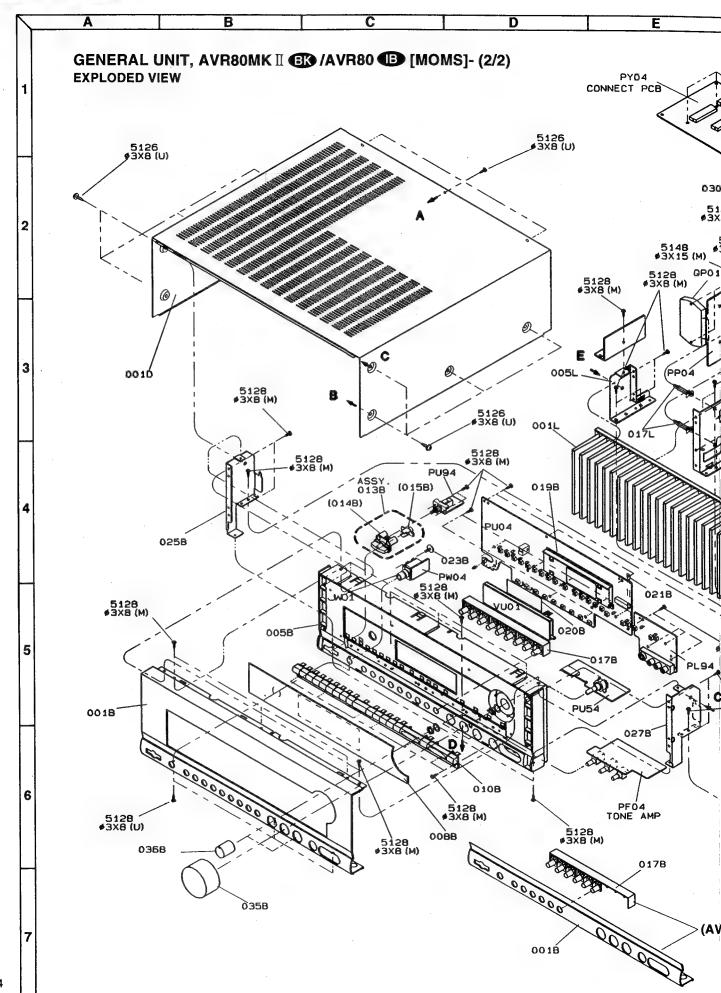
<u>B</u>	<u>Ref. No</u> .	Part. No.	Description	<u>Q'TY</u>	Ref. No.	Part. No.	Description	<u>Q'TY</u>
(001B	260J248020	FRONT PANEL IB	1	▲ L001	TS60513020	POWER TRANSF. 230V B	1
(001B	260J248010	FRONT PANEL BK	1	▲ L001	TS60513010	POWER TRANSF. 120V BK	1
(005B	260J105010	CHASSIS, FRONT	1	L002	FC50380010	FERRITE CORE IB	1
(008B	260J158010	WINDOW	1	Y001	YQ01000080	SHORTING PLUG	1
(010B	260J270010	BUTTON, FUNCTION	1	Y002	YQ01000080	SHORTING PLUG	1
(013B	260J270510	BUTTON KIT, POWER	1	Y003	YQ01000080	SHORTING PLUG	1
(014B	260J270040	BUTTON, POWER	1	Y004	YQ01000080	SHORTING PLUG	1
(015B	260J355020	LENS, POWER	1	Y005	YQ01000080	SHORTING PLUG	1.
(017B	260J270020	BUTTON, MODE (B)	1	▲ W001	YC01800790	A.C POWER CORD IB	1
(017B	260J270120	BUTTON, MODE BK	1	▲ W001	YC01800780	A.C POWER CORD BK	1
(019B	183J271020	HOLDER, FL	1				
(020B	056J122010	STICKER, FL	1	5110	51100306M0	B. H. M SCREW 5110 ø3x6 (M)	5
(021B	4220005040	CLAMPER	1	5110	51100308A0	B. H. M SCREW 5110 ø3x8 (A)	4
(023B	183J010010	SCREW, PHONE PCB	1	5126	51260308M0	B.T.SCREW(W/W) 5126 ø3x8 (M)	8
(025B	264J160040	BRACKET, LEFT	1	5126	51260308U0	B.T.SCREW(W/W) 5126 ø3x8 (U)	11
(027B	264J160050	BRACKET, RIGHT	1	5128	51280308M0	B. H. TAP. SCREW 5128 ø3x8 (M)	99
(035B	063J154180	KNOB, MAIN VOL	1	5128	51280308U0	B. H. TAP. SCREW 5128 ø3x8 (U)	3
- 1	036B	042J154020	KNOB, TONE VOL	3	5128	51280325B0	B. H. TAP. SCREW 5128 ø3x25 (B)	2
- (001D	264J257110	LID, TOP COVER	1	5128	51280410U0	B. H. TAP, SCREW 5128 ø4x10 (U)	1
- 1	001G	264J105500	CHASSIS ASSEMBLY, MAIN	1	5128	51480310A0	F. WASHER SCREW 5148 ø3x10(A)	9
. (002G	264J105010	CHASSIS, MAIN	1.	5128	51480315M0	F. WASHER SCREW 5148 ø3x15(M)	2
1	003G	030J114010	STOPPER	1	5128	52040408M0	H. HEAD BOLT 5204 ø4x8 (M)	4
(006G	227J056010	BUFFER	4				
(007G	183J057010	LEG, FRONT	2				
(008G	183J057110	LEG, REAR	2				
-	010G	264J160010	BRACKET, TRANSF.	1				
(013G	260J271010	HOLDER, SUB TRANSF.	1				
-	016G	2218271020	HOLDER, PCB	7				
	017G	054J101020	SUPPORT, MAIN PCB	3				
	020G	137J861050	LABEL, FUSE BK	1				
	022G	093J861010	LABEL, FUSE BK	1				
	030G	136J101020	SUPPORT	1				
	900G	260J250020	REAR PANEL IB	1				
	900G	260J250010	REAR PANEL BK	1				
	910G	450H259010	BUSHING, AC CODE	1				
	915G	260J861010	LABEL	- 1				
	920G	95109111D0	LABEL BK	1				
	001L	264J267010	HEATSINK, MAIN	1				
	005L	264J160020	BRACKET, HEAT SINK (L) BRACKET, HEAT SINK (R)	1				
	009L	264J160030 261J104010	RETAINER, MAIN PCB	2				
	013L 015L	264J160060	BRACKET, HEATSINK CENTER	1				
	017L	090J101010	SUPPORT	2				
	020L	287S005010	CLAMPER	1				
	020L	009D267010	HEATSINK	i				
	002K	009D267010	HEATSINK	1				
	002K	001J267030	HEATSINK	1				
	004K	001J267030	HEATSINK	1				
	005K	309V267010	HEATSINK	1				
	007K	309V267010	HEATSINK	1				
	011K	260J123010	CONTACTOR	1				
	012K	152J118030	SPACER	1				
	014K	306V259030	BUSHING IB	1				
	061K	415T101010	SUPPORT	1			•	

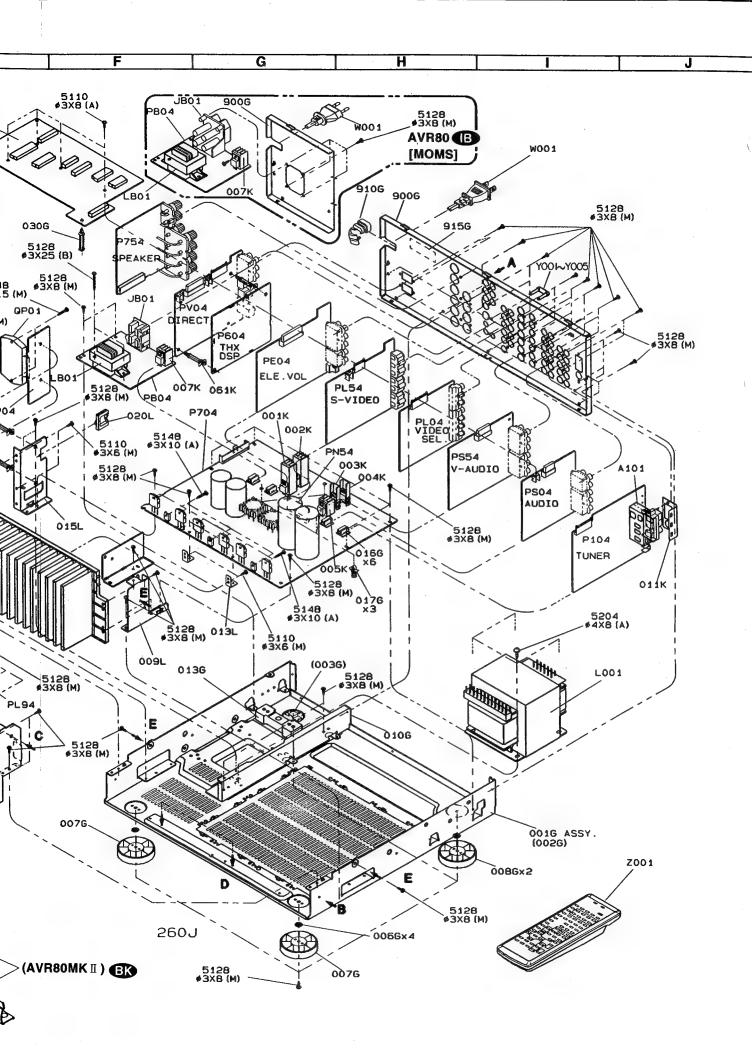






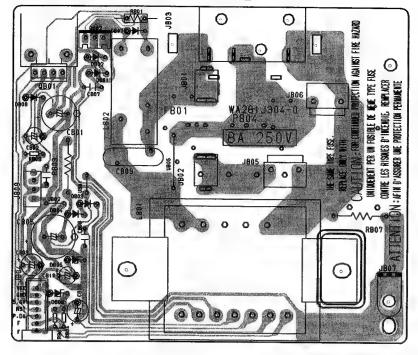




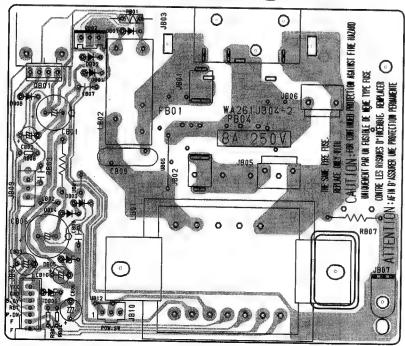


P.C. BOARDS (1)

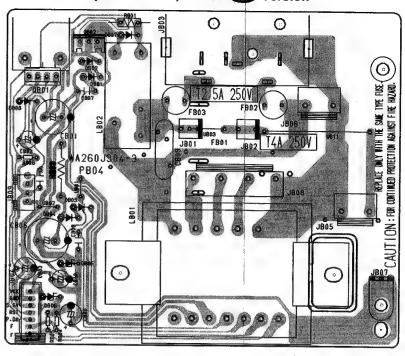
PB04-Back-up P.C. Board , AVR80 (BK) Version



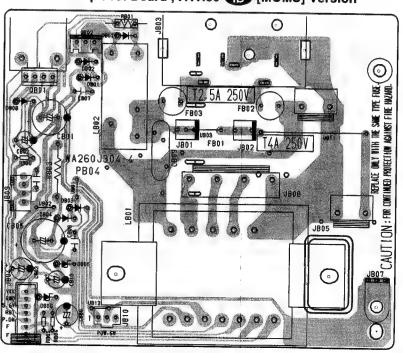
PB04-Back-up P.C. Board , AVR80MK II (BK) Version



PB04-Back-up P.C. Board , AVR80 (B) Version



PB04-Back-up P.C. Board , AVR80 (B) [MOMS] Version



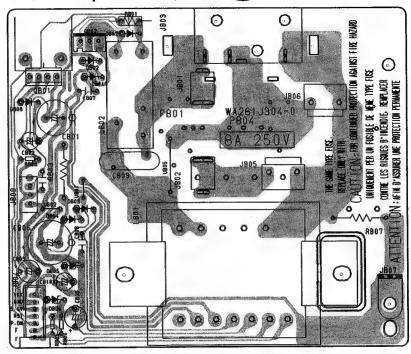
A B C D E

P.C. BOARDS (1)

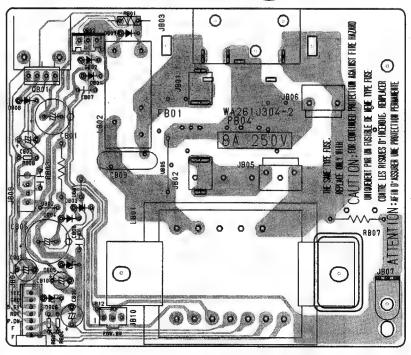
5

6

PB04-Back-up P.C. Board , AVR80 BK Version

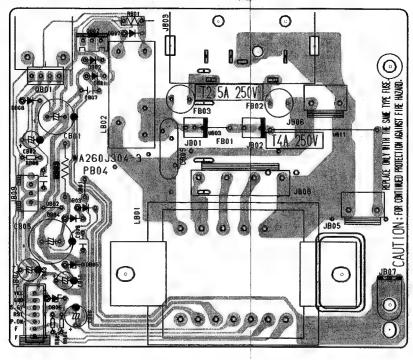


PB04-Back-up P.C. Board , AVR80MK II (BK) Version

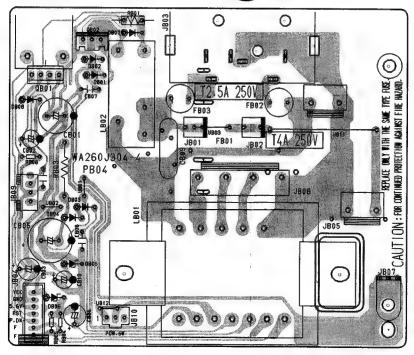


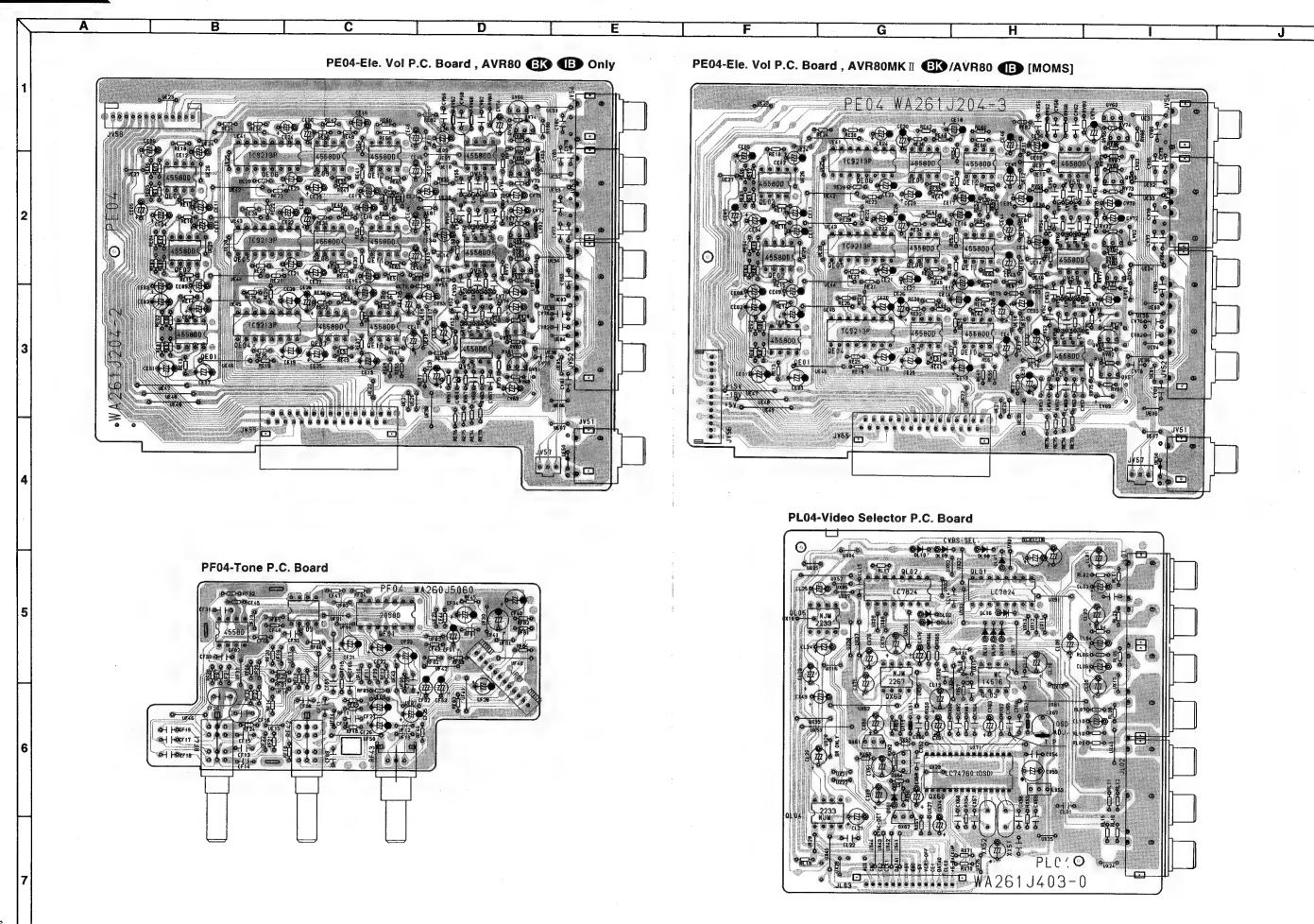
F G H

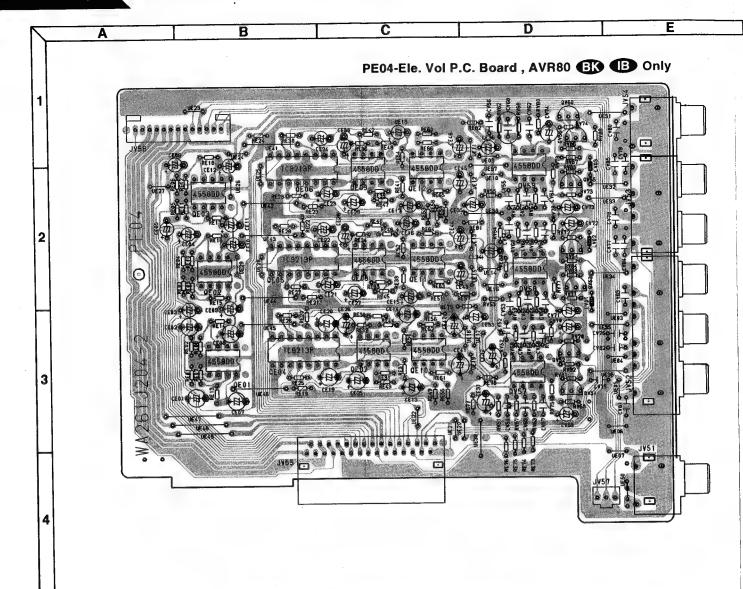
PB04-Back-up P.C. Board , AVR80 B Version



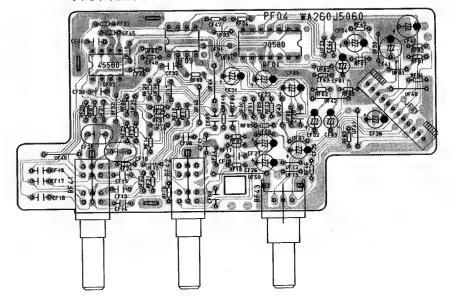
PB04-Back-up P.C. Board , AVR80 (B) [MOMS] Version







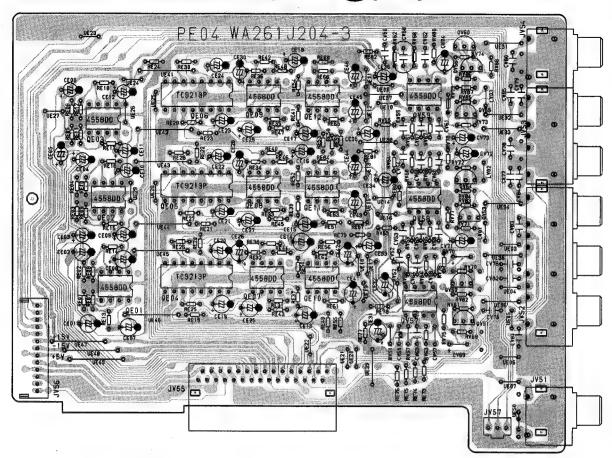
PF04-Tone P.C. Board



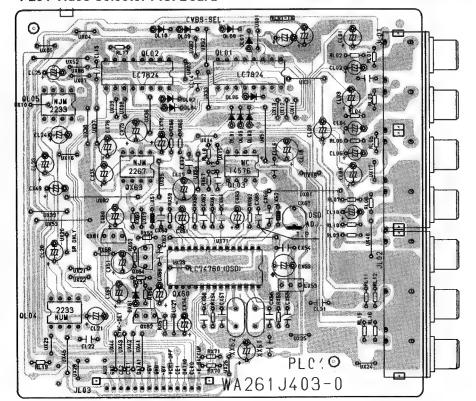
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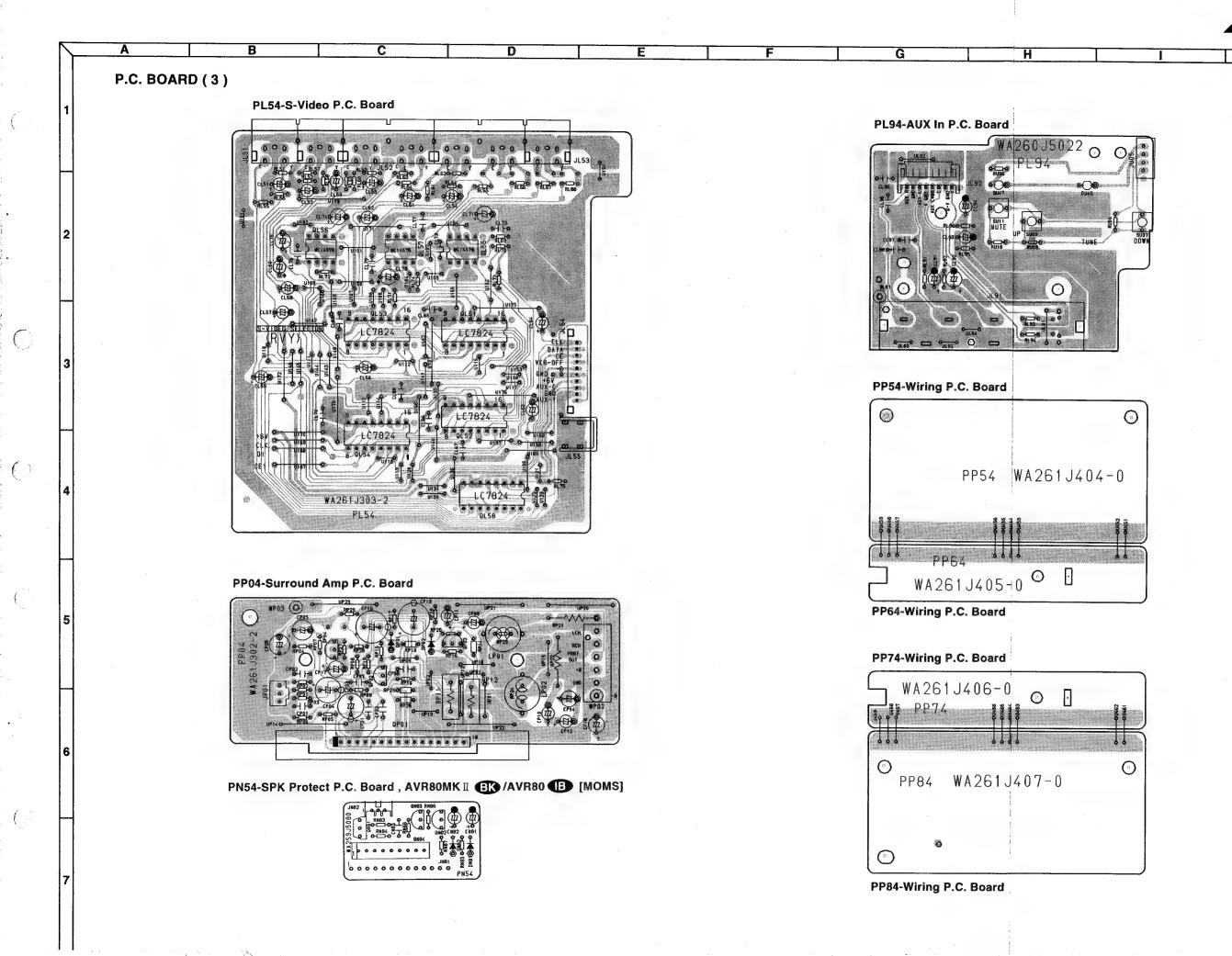
F G H

PE04-Ele. Vol P.C. Board , AVR80MK II BK /AVR80 B [MOMS]



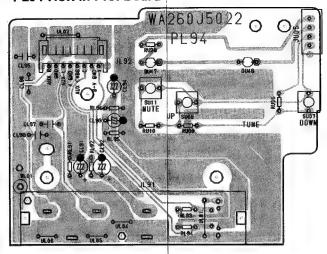
PL04-Video Selector P.C. Board



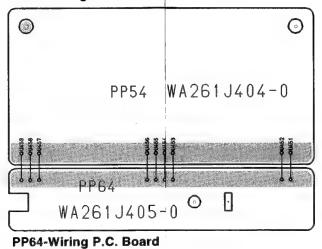


C В P.C. BOARD (3) PL54-S-Video P.C. Board WA261J303-2 PP04-Surround Amp P.C. Board PN54-SPK Protect P.C. Board , AVR80MK II BK /AVR80 B [MOMS] GH

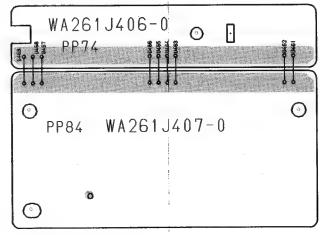
PL94-AUX In P.C. Board



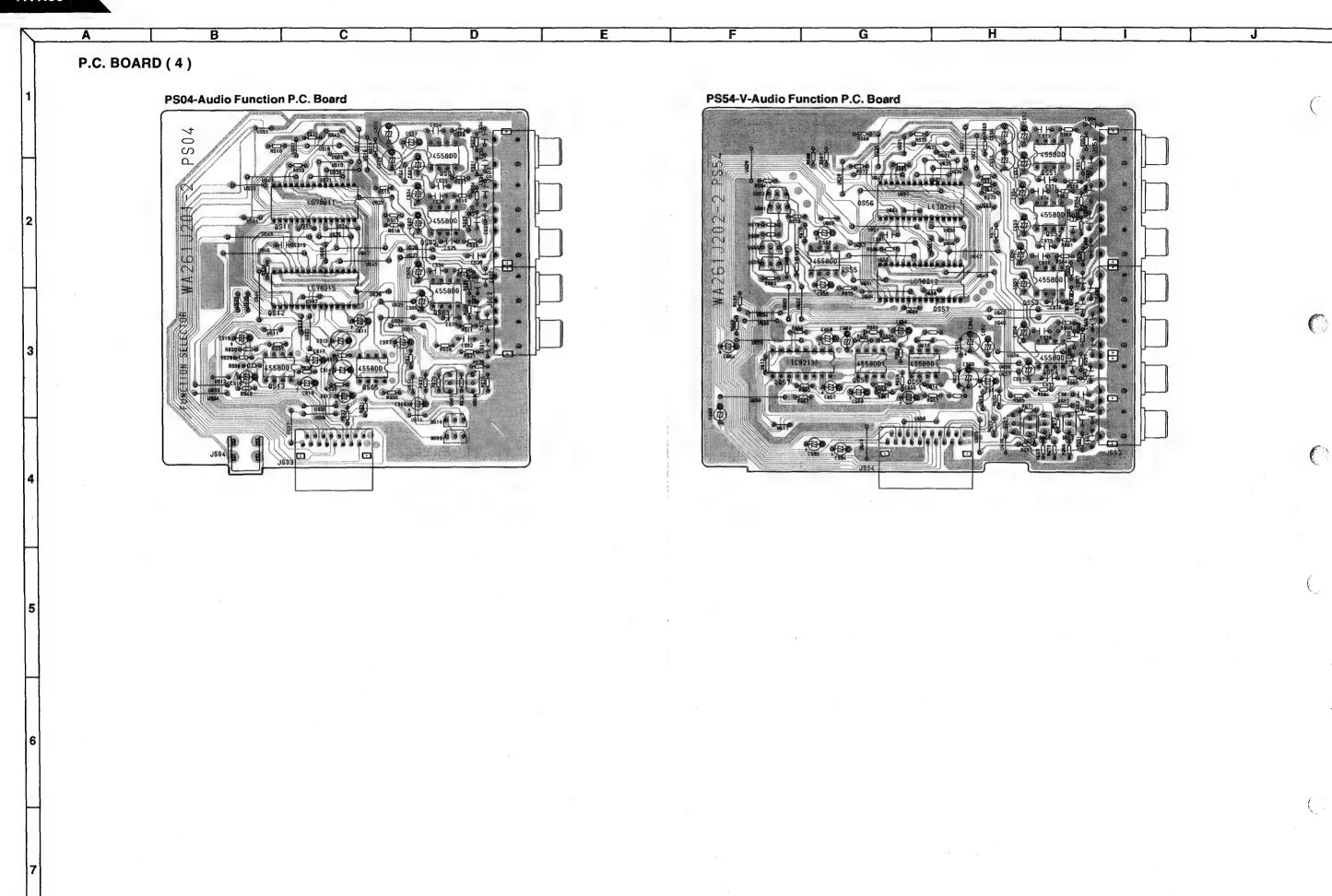
PP54-Wiring P.C. Board

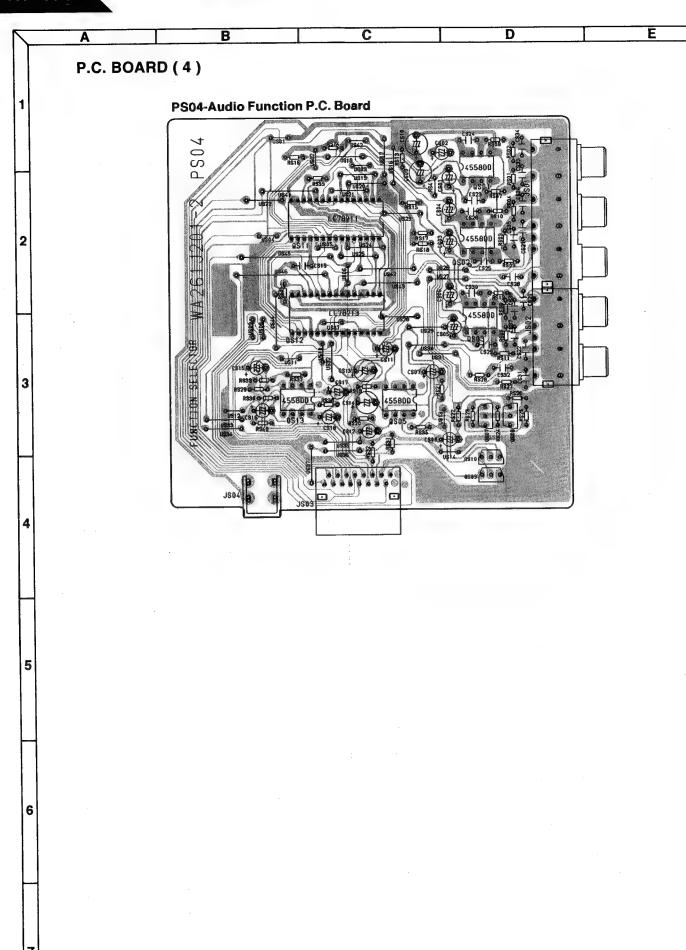


PP74-Wiring P.C. Board

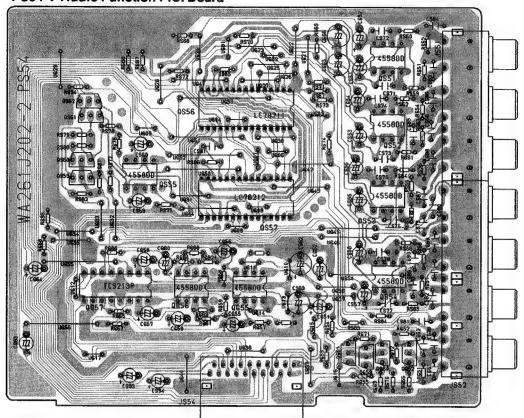


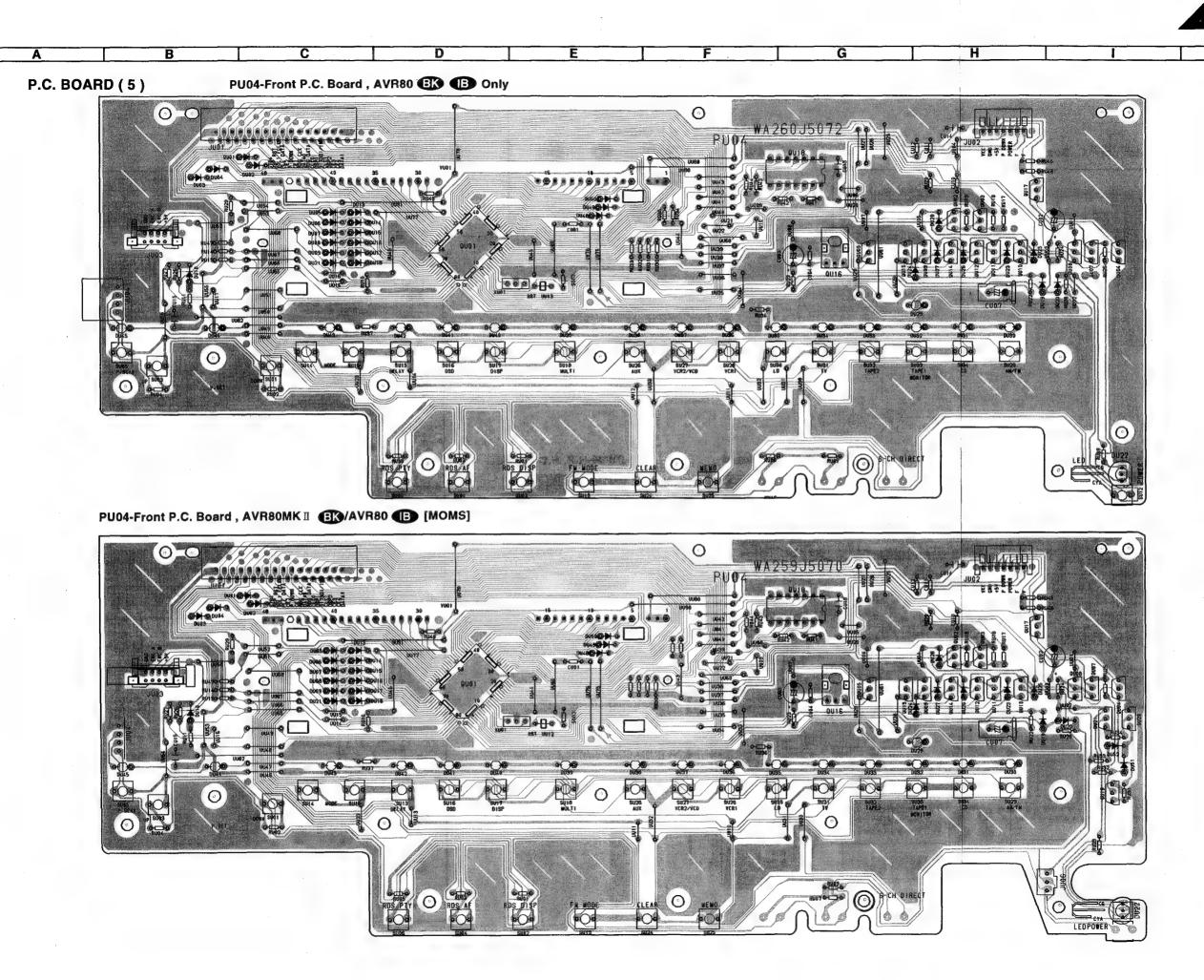
PP84-Wiring P.C. Board

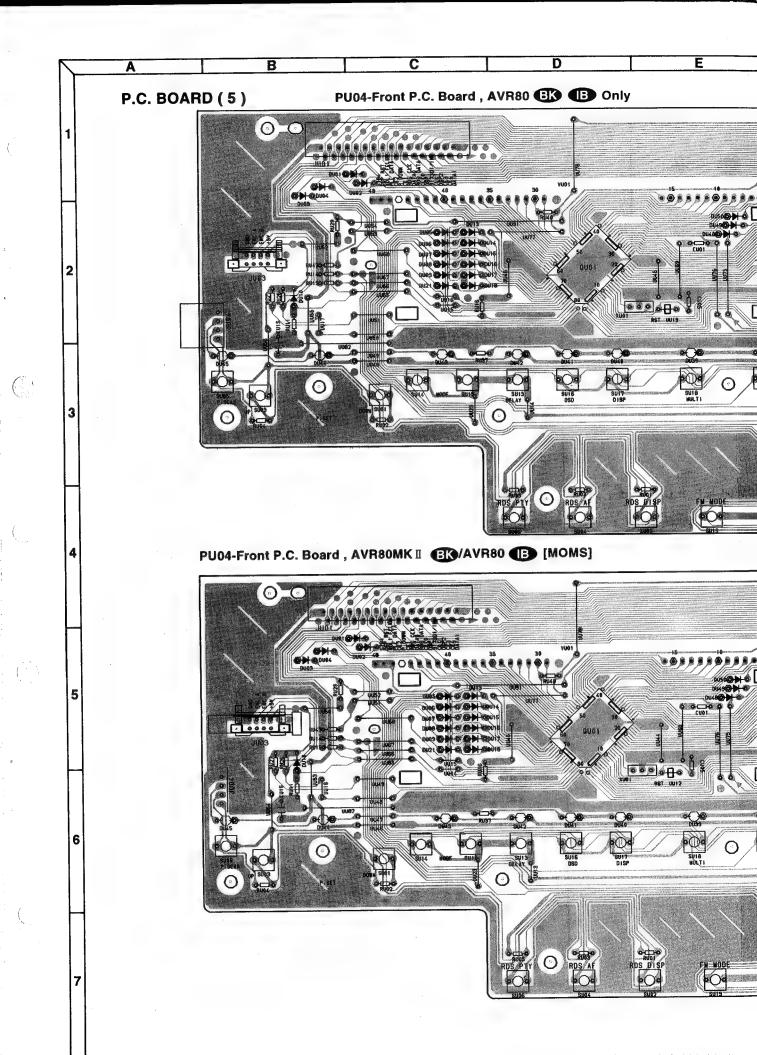




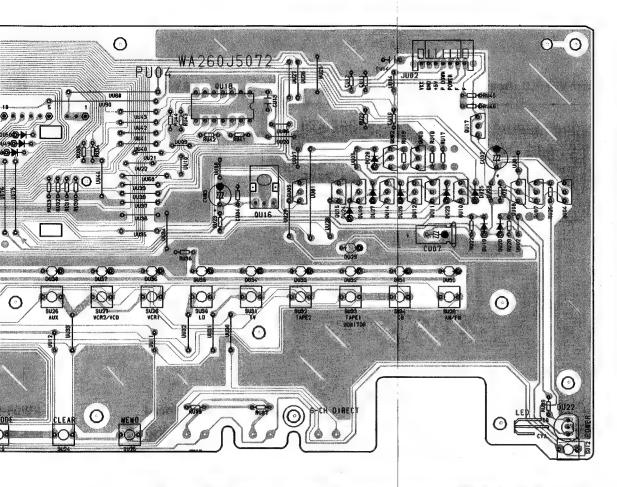
PS54-V-Audio Function P.C. Board





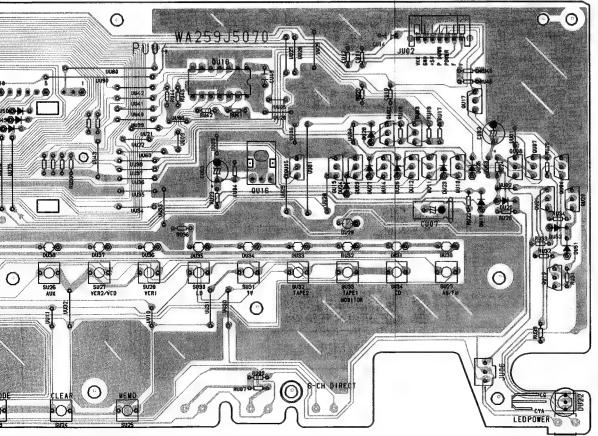


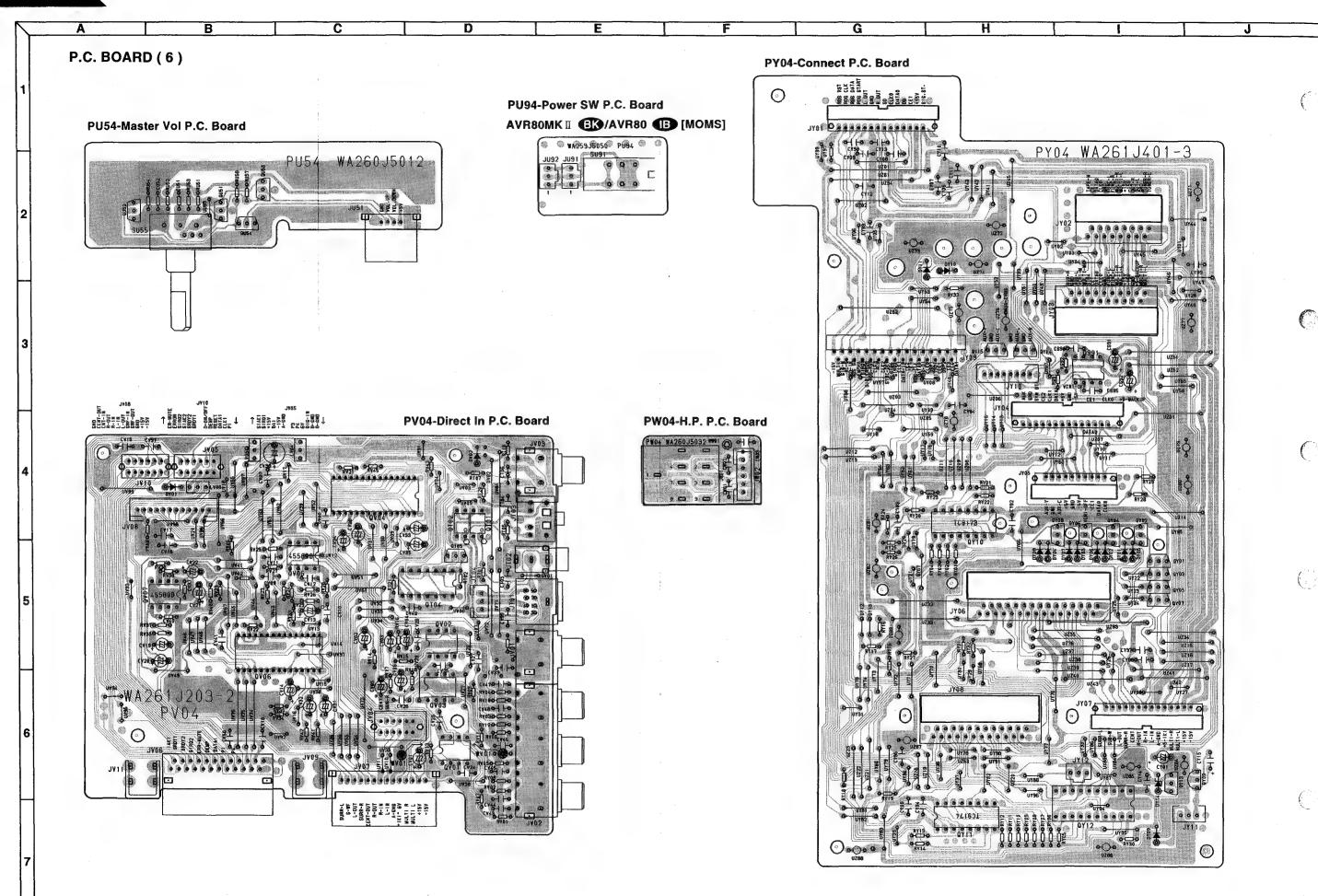
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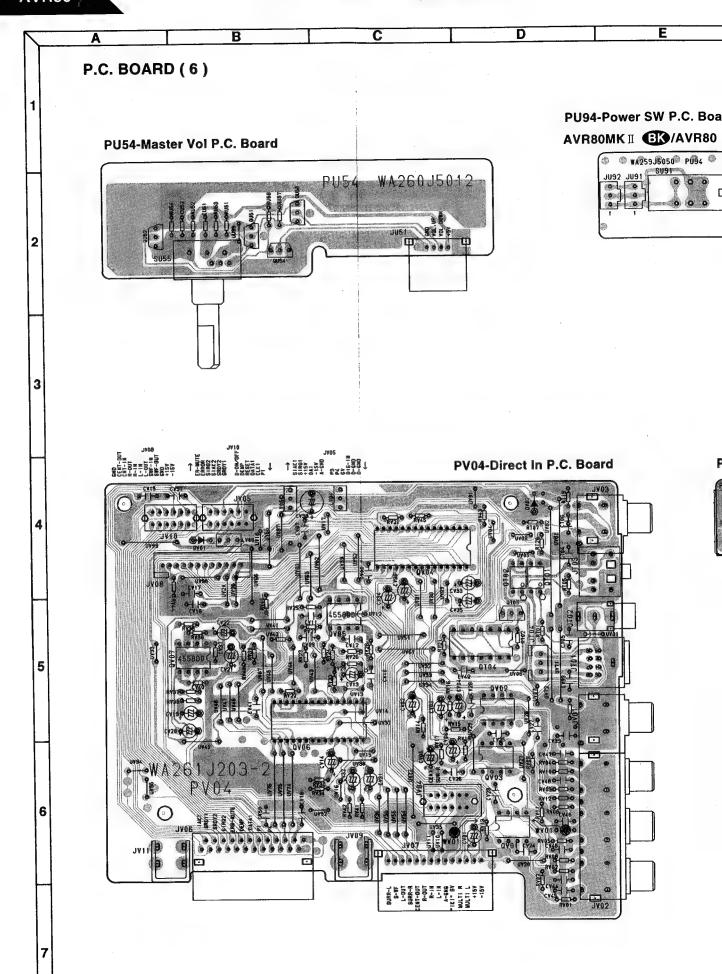


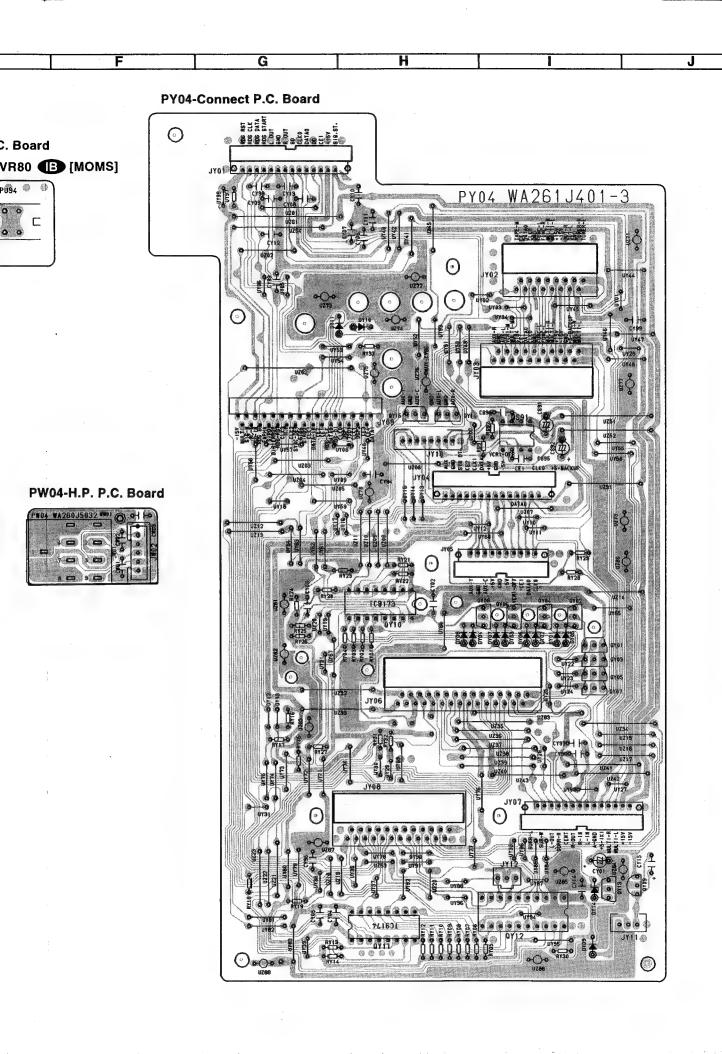
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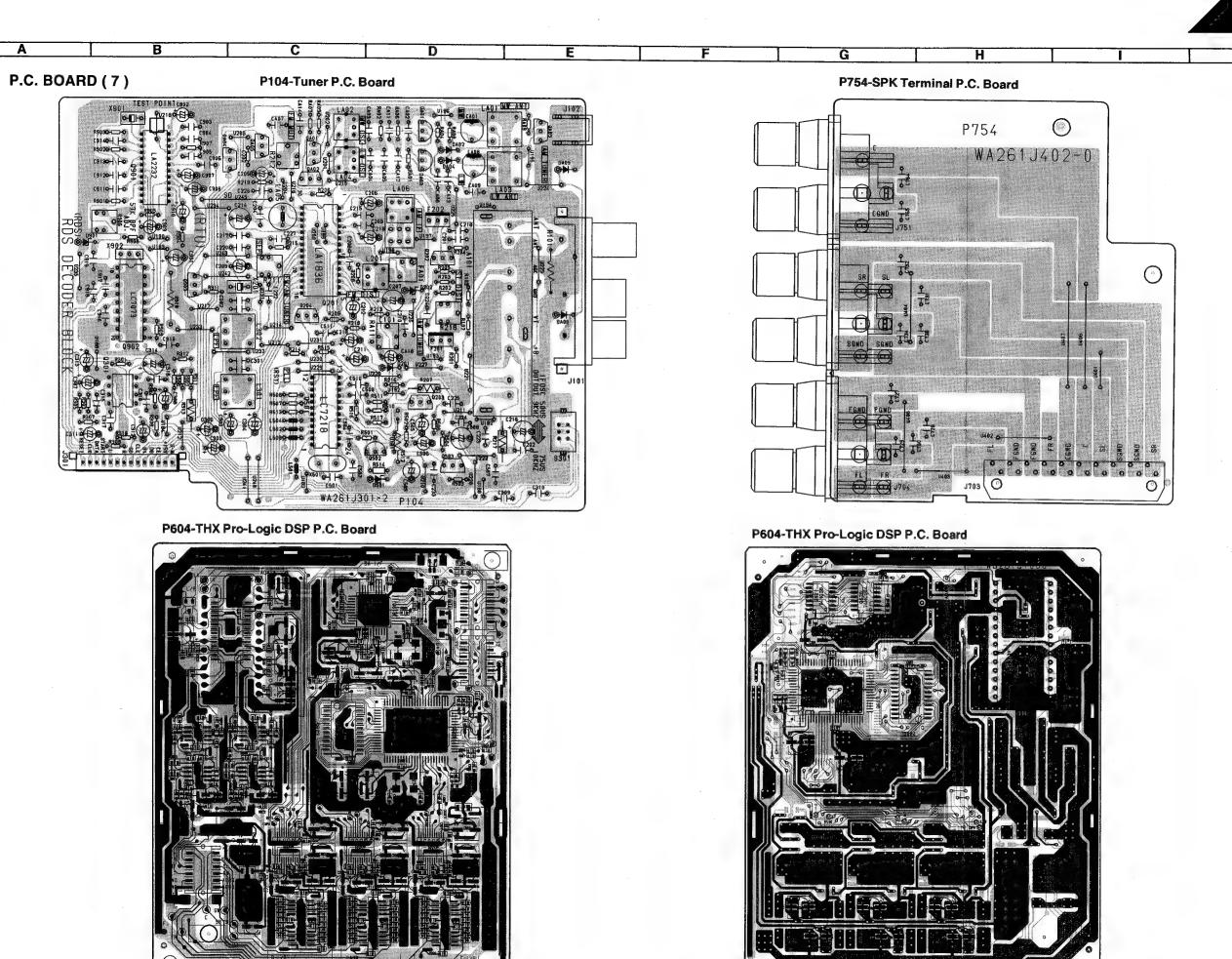
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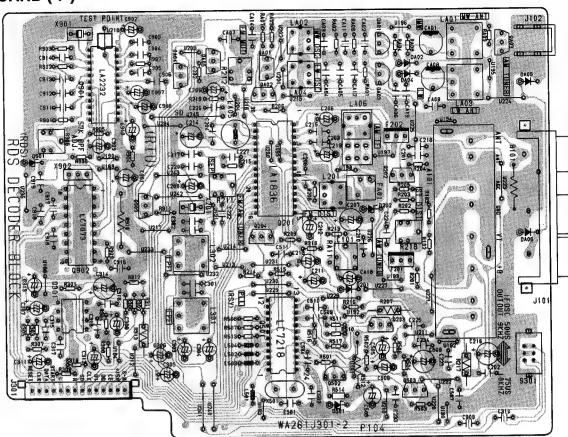




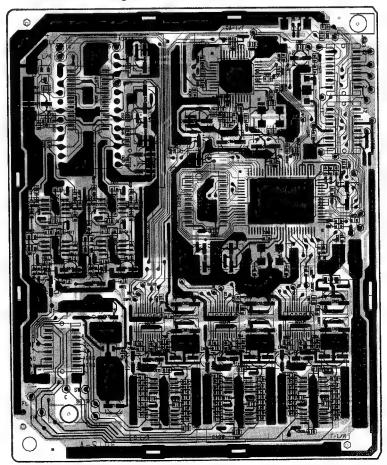
A B C D E

P.C. BOARD (7)

P104-Tuner P.C. Board



P604-THX Pro-Logic DSP P.C. Board

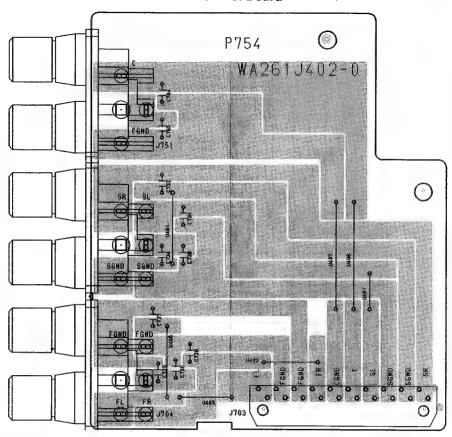


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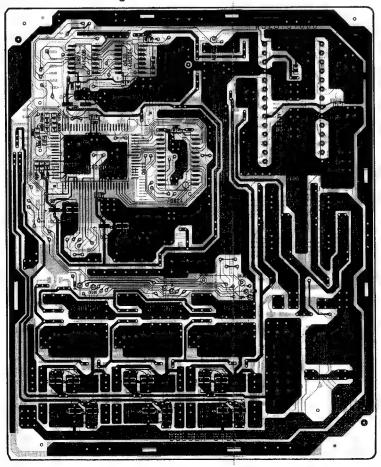
P754-SPK Terminal P.C. Board

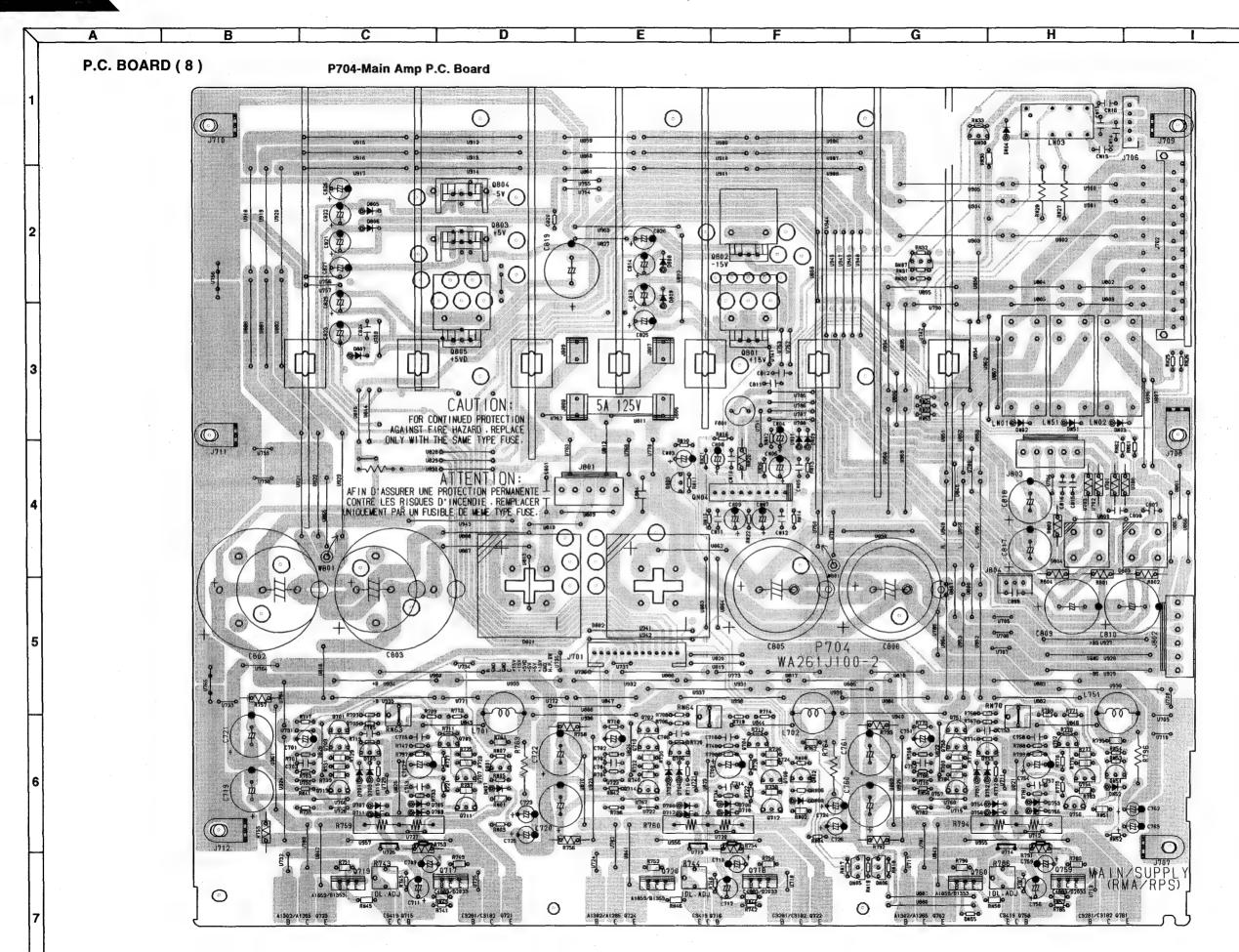
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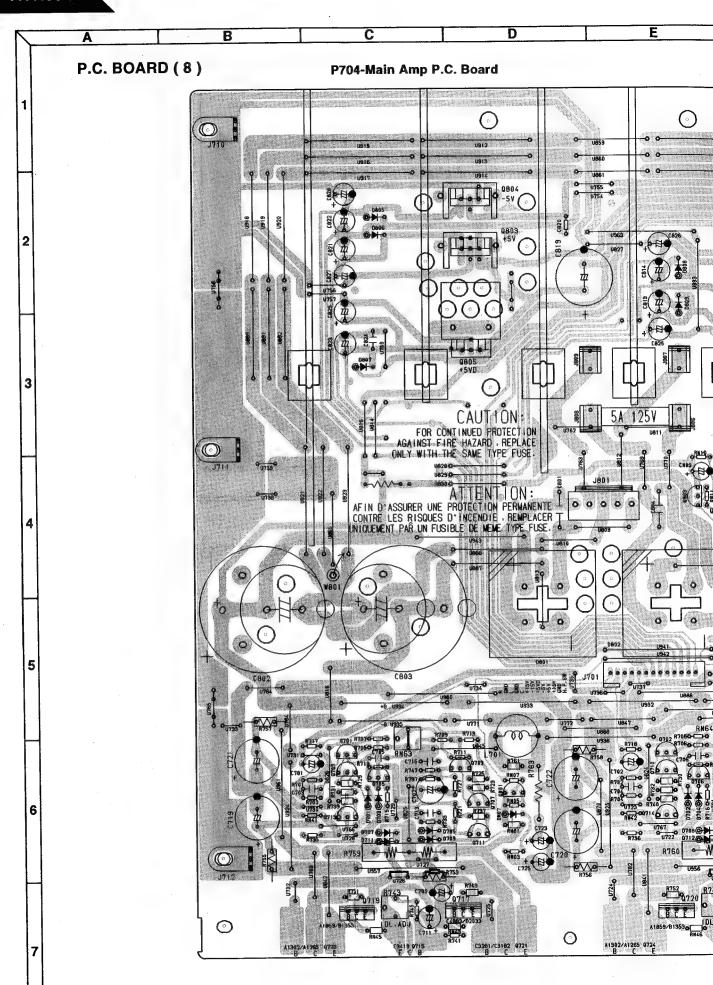
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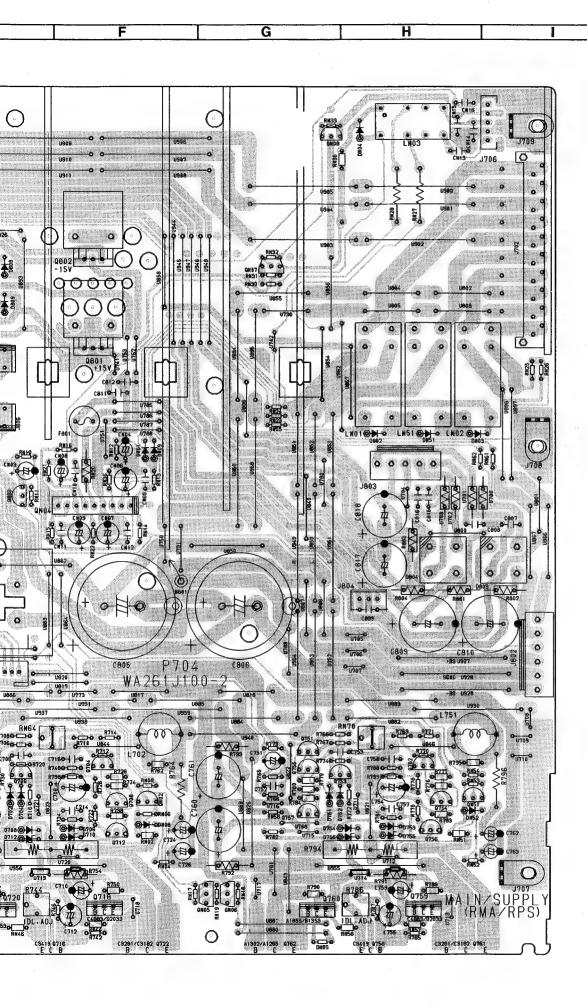


P604-THX Pro-Logic DSP P.C. Board









ELECTRICAL PARTS LIST

Ref. No.	Part. No.	Description	Ref. No.	Part. No.		Description
	PB04-BA	CK-UP P.C. BOARD		PE04-EL	E.VOL P.C	BOARD
		CAPACITORS			CAPACITO	ORS
CB01	EA47703510	ELECT 470µF 35V	CE01	OA10601620	ELECT	10μF 16V
CB02	EA10606310	ELECT 10µF 63V	CE02	OA10601620	ELECT	10μF 16V
CB03	EA47603510	ELECT 47μF 35V	CE03	EJ10601610	ELECT	10μF 16V
CB05	EA47705010	ELECT 470µF 50V	CE04	EJ10601610	ELECT	10μF 16V
CB06	EA47603510	ELECT 47μF 35V	CE05	EJ10601610	ELECT	10μF 16V
CB07	DK18103310	CERAMIC 0.01µF +80% -20%	CE06	EJ10601610	ELECT	10μF 16V
CB08	DK18103310	CERAMIC 0.01µF +80% -20%	CE07	OA47505020	ELECT	4.7μF 50V
▲CB09	DK17103840	CERAMIC 0.01μF ±20%	CE08	OA47505020	ELECT	4.7μF 50V
CB10	EA10606310	ELECT 10µF 63V	CE09 CE10	EJ47502510	ELECT	4.7μF 25V
		RESISTORS	CE10	EJ47502510 EJ47502510	ELECT	4.7μF 25V
▲RB01	GG05100140	1/4W 10 Ω ±5%	CE12	EJ47502510	ELECT	4.7μF 25V 4.7μF 25V
▲ RB03	GA05471010	1W 470 Ω ±5%	CE13	OA47505020	ELECT	4.7μF 50V
RB04	GD05101160	1/6W 100 Ω ±5%	CE14	OA47505020	ELECT	4.7μF 50V
RB05	GD05101160	1/6W 100 Ω ±5%	CE15	EJ47502510	ELECT	4.7μF 25V
▲ RB07	RC10225820	1/2W 2.2M Ω ±10% BK	CE16	EJ47502510	ELECT	4.7µF 25V
RB08	GD05103160	1/6W 10K Ω ±5%	CE17	EJ47502510	ELECT	4.7μF 25V
			CE18	EJ47502510	ELECT	4.7μF 25V
		INTEGRATED CIRCUITS	CE19	OA47505020	ELECT	4.7μF 50V
▲ QB01	HC38905320	IC PQ05RR1 Voltage Regulator	CE20	OA47505020	ELECT	4.7μF 50V
			CE21	EJ47502510	ELECT	4.7μF 25V
OBOO	UT400004F0	TRANSISTOR	CE22	EJ47502510	ELECT	4.7μF 25V
QB02	HT420331E0	2SD2033 (E)	CE23 CE24	EJ47502510	ELECT	4.7μF 25V
		DIODES	CE25	EJ47502510 OA47505020	ELECT ELECT	4.7μF 25V 4.7μF 50V
▲ DB01	HD20002710	1D3 1A/200V	CE26	OA47505020	ELECT	4.7μF 50V 4.7μF 50V
▲ DB02	HD20002710	1D3 1A/200V	CE27	EJ47502510	ELECT	4.7μF 25V
▲ DB03	HD20002710	1D3 1A/200V	CE28	EJ47502510	ELECT	4.7µF 25V
▲ DB04	HD20002710	1D3 1A/200V	CE29	EJ47502510	ELECT	4.7µF 25V
DB05	HD33301000	ZENER MTZJ33D	CE30	EJ47502510	ELECT	4.7µF 25V
DB06	HD30821000	ZENER NTJ8.2C	CE31	OA10601620	ELECT	10μF 16V
▲ DB07	HD20002710	1D3 1A/200V	CE32	OA10601620	ELECT	10μF 16V
▲DB08	HD20002710	1D3 1A/200V	CE33 CE34	EJ47502510 EJ47502510	ELECT	4.7μF 25V
		MISCELLANEOUS	CE35	EJ47502510	ELECT ELECT	4.7μF 25V 4.7μF 25V
▲ FB01	FS10400850	FUSE S506 4A 250V (B)	CE36	EJ10601610	ELECT	10μF 16V
▲ FB01	FS10800540	FUSE SM8 8A 125V BK	CE41	OA10601620	ELECT	10μF 16V
▲FB02	FS20250200	FUSE TR5 T2.5A 250V IB	CE42	OA10601620	ELECT	10μF 16V
▲ FB03	FS20250200	FUSE TR5 T2.5A 250V (B)	CE43	EJ10601610	ELECT	10μF 16V
JB01	YJ08000580	JACK, FUSE CLIP [MOMS]	CE44	EJ10601610	ELECT	10μF 16V
JB01 JB01	YJ08000590 YJ08000170	JACK, FUSE CLIP (B) (AVR80) JACK, FUSE CLIP (BK)	CE45	EJ10601610	ELECT	10μF 16V
JB01 JB02	YJ08000590	JACK, FUSE CLIP (B) [MOMS]	CE46 CV53	EJ10601610 DF15182350	ELECT	10μF 16V 1800PF ±5%
JB02	YJ08000580	JACK, FUSE CLIP (B) (AVR80)	CV54	DF15182350	FILM FILM	1800PF ±5%
JB02	YJ08000170	JACK, FUSE CLIP BK	CV55	DF15182350	FILM	1800PF ±5%
▲ JB03	YJ04002080	JACK, AC OUTLET 2P IB	CV59	DF15472350	FILM	4700PF ±5%
▲ JB03	YJ04002040	JACK, AC OUTLET 2P BK	CV60	DF15472350	FILM	4700PF ±5%
JB04	YP06006670	PLUG, 7P	CV61	DF15472350	FILM	4700PF ±5%
▲JB05	YP04000760	PLUG, 2P	CV62	DF15104350	FILM	0.1μF ±5%
▲JB06	YP04000760	PLUG, 2P	CV65	DK16271300	CERAMIC	270PF ±10%
JB07	YL01010240	TERMINAL, GND	CV66	DK16271300	CERAMIC	270PF ±10%
JB09 JB10	YP06003830 YP06006930	PLUG, 3P	CV67 CV68	DK16271300	CERAMIC	270PF ±10%
. ▲ LB01	TS14823240	PLUG, 3P (AVR80MKII) POWER TRANSF.	CV71	DF15473310 EJ10601610	FILM ELECT	0.047μF ±5% 10μF 16V
▲ LB01	TS14823230	POWER TRANSF. BK	CV72	EJ10601610	ELECT	10μF 16V
▲ LB02	LY10240240	RELAY, VS24MB-NR	CV73	EJ10601610	ELECT	10μF 16V
		.,	CV74	EJ22601610	ELECT	22μF 16V
			CV75	DK16471300	CERAMIC	470PF ±10% B
			CV76	DK16471300	CERAMIC	470PF ±10% B
			CV77	DK16221300	CERAMIC	220PF ±10% IB
			CV78	DK16221300	CERAMIC	220PF ±10% IB
			CV79	DK16221300	CERAMIC	220PF ±10% B
			CV80 CV81	DK16102300 DK16221300	CERAMIC CERAMIC	1000PF ±10% IB 220PF ±10% IB
			CV81	DK16221300	CERAMIC	220PF ±10% B
			CV83	DK16221300	CERAMIC	220PF ±10% IB
						_

Ref. No.	Part. No.	<u>Descrip</u>	tion	Ref. No.	Part. No.	Descriptio	<u>n</u>
CV84	DK16221300	CERAMIC 220P		RE73	GD05105160	1/6W 1MΩ	±5%
CV85	DK16471300	CERAMIC 470P	F ±10% (B)	RE74	GD05105160		±5%
				RE75	GD05105160		±5%
		RESISTORS		RE76	GD05105160		±5%
RE01	GD05104160	1/6W 100K Ω	±5%	RE79	GD05104160		±5%
RE02	GD05104160	1/6W 100K Ω	±5%	RE80	GD05104160		±5%
RE03	GD05104160	1/6W 100K Ω	±5%	RE81	GD05104160		±5%
RE04	GD05104160	1/6W 100K Ω	±5%	RE82	GD05104160		±5%
RE05	GD05104160	1/6W 100K Ω	±5%	RV53	GD05392160		±5%
RE06	GD05104160	1/6W 100K Ω	±5%	RV54	GD05392160	=	±5%
RE07	GD05332160	1/6W 3.3K Ω	±5%	RV55	GD05392160		±5%
RE08	GD05332160	1/6W 3.3K Ω	±5%	RV59	GD05392160		±5%
RE09	GD05332160	1/6W 3.3K Ω	±5%	RV60	GD05392160		±5%
RE10	GD05332160	1/6W 3.3K Ω	±5%	RV61	GD05392160		£5%
RE11	GD05332160	1/6W 3.3K Ω	±5%	RV62	GD05273160		±5%
RE12	GD05332160	1/6W 3.3K Ω	±5%	RV65	GD05392160		±5%
RE13	GD05222160	1/6W 2.2K Ω	±5%	RV66	GD05392160		£5%
RE14	GD05222160	1/6W 2.2K Ω	±5%	RV67	GD05392160		£5%
RE15	GD05222160	$1/6W$ 2.2K Ω	±5%	RV68	GD05273160	· _	£5%
RE16	GD05222160	$1/6W$ 2.2K Ω	±5%	RV69	GD05471160		±5%
RE17	GD05222160	1/6W 2.2K Ω	±5%	RV70	GD05471160		±5%
RE18	GD05222160	1/6W 2.2K Ω	±5%	RV71	GD05471160		5%
RE19	GD05104160	$1/6W 100K \Omega$	±5%	RV72	GD05471160		5%
RE20	GD05104160	$1/6W$ 100K Ω	±5%	RV73	GD05471160		5%
RE21	GD05104160	$1/6W$ $100K \Omega$	±5%	RV74	GD05221160		5%
RE22	GD05104160	$1/6W$ 100K Ω	±5%	RV75	GD05473160		-5%
RE23	GD05104160	$1/6W$ 100K Ω	±5%	RV76	GD05473160		-5%
RE24	GD05104160	$1/6W$ 100K Ω	±5%	RV77	GD05473160		5%
RE25	GD05331160	1/6W 330 Ω	±5%	RV78	GD05473160		5%
RE26	GD05331160	1/6W 330 Ω	±5%	RV79	GD05473160		5%
RE27	GD05331160	1/6W 330 Ω	±5%	RV80	GD05473160		5%
RE28	GD05331160	1/6W 330 Ω	±5%	RV81	GD05103160	$1/6W$ $10K\Omega$ \pm	5%
RE29	GD05331160	1/6W 330 Ω	±5%	RV82	GD05103160	$1/6W$ $10K\Omega$ \pm	5%
RE30	GD05331160	1/6W 330 Ω	±5%	RV83	GD05103160	$1/6W$ $10K\Omega$ ±	5%
RE31	GD05152160	1/6W 1.5K Ω	±5%	RV84	GD05103160	$1/6W$ $10K\Omega$ \pm	5%
RE32 RE33	GD05152160	1/6W 1.5K Ω	±5%	RV85	GD05103160	$1/6W$ $10K\Omega$ ±	5%
RE34	GD05152160 GD05152160	1/6W 1.5K Ω	±5%	RV86	GD05103160		5%
RE35	GD05152160 GD05152160	1/6W 1.5K Ω 1/6W 1.5K Ω	±5%	RV87	GD05103160		5%
RE36	GD05152160 GD05152160	1/6W 1.5K Ω 1/6W 1.5K Ω	±5%	RV88	GD05271160	$1/6W$ 270 Ω \pm	5%
RE37	GD05132160 GD05334160	1/6W 330K Ω	±5% ±5%				
RE38	GD05334160	1/6W 330K Ω				INTEGRATED CIRCUITS	
RE39	GD05334160	1/6W 330K Ω	±5% ±5%	QE01	HC10008090	IC NJM4558DD Dual	OP AMP
RE40	GD05334160	1/6W 330K Ω	±5%	QE02	HC10008090	IC NJM4558DD Dual	
RE41	GD05334160	1/6W 330K Ω	±5%	QE03	HC10008090	IC NJM4558DD Dual	
RE42	GD05334160	1/6W 330K Ω	±5%	QE04	HC10304050	IC TC9213P Electric V	olume (2ch)
RE43	GD05152160	1/6W 1.5K Ω	±5%	QE05	HC10304050	IC TC9213P Electric V	olume (2ch)
RE44	GD05152160	1/6W 1.5K Ω	±5%	QE06	HC10304050	IC TC9213P Electric V	
RE45	GD05152160	1/6W 1.5K Ω	±5%	QE07	HC10008090	IC NJM4558DD Dual	
RE46	GD05152160	1/6W 1.5K Ω	±5%	QE08	HC10008090	IC NJM4558DD Dual	
RE47	GD05152160	1/6W 1.5K Ω	±5%	QE09	HC10008090		OP AMP
RE48	GD05152160	1/6W 1.5K Ω	±5%	QE10 QE11	HC10008090		OP AMP
RE49	GD05104160	1/6W 100K Ω	±5%	QE12	HC10008090 HC10008090		OP AMP
	GD05104160	1/6W 100K Ω	±5%	QV58			OP AMP
	GD05104160	1/6W 100K Ω	±5%	QV59	HC10008090 HC10008090	IC NJM4558DD Dual	
	GD05104160	1/6W 100K Ω	±5%	G V DS	11010000000	IC NJM4558DD Dual	OP AMP
	GD05104160	1/6W 100K Ω	±5%			TRANSISTORS	
	GD05104160	1/6W 100K Ω	±5%	QV51	UT220702AA	TRANSISTORS	
	GD05152160	1/6W 1.5K Ω	±5%	QV51 QV52	HT328782A0 HT328782A0	2SC2878 (A, B) 2SC2878 (A, B)	
	GD05152160	1/6W 1.5K Ω	±5%	QV52			
	GD05152160	1/6W 1.5K Ω	±5%	QV53 QV54	HT328782A0	2SC2878 (A, B)	
	GD05152160	1/6W 1.5K Ω	±5%	QV54 QV55	HT328782A0	2SC2878 (A, B)	
	GD05152160	1/6W 1.5K Ω	±5%	QV56	HT328782A0	2SC2878 (A, B)	
	GD05152160	1/6W 1.5K Ω	±5%	QV56 QV60	HT328782A0	2SC2878 (A, B)	
	GD05152160	1/6W 1.5K Ω	±5%	C4 A OO	HT328782A0	2SC2878 (A, B)	
	GD05152160	1/6W 1.5K Ω	±5%				
	GD05152160	1/6W 1.5K Ω	±5%				
	GD05152160	1/6W 1.5K Ω	±5%				
	GD05152160	1/6W 1.5K Ω	±5%				
RE66	GD05152160	1/6W 1.5K Ω	±5%				

Ref. No.	Part. No.	Descrip	tion	Ref. No.	Part. No.		Descrip	etion
		00110						
1.1/04	1.04.4700000	COILS	•	RF13	GD05103160	1/6W	10K Ω	±5%
LV01 LV02	LC14733800 LC14733800	CHOKE 47µH (B)		RF14	GD05103160	1/6W	10K Ω	±5%
LV02		CHOKE 47µH B		RF15	GD05103160	1/6W	10K Ω	±5%
LV03	LC14733800	CHOKE 47µH (B)		RF17	GD05103160	1/6W	10K Ω	±5%
		MICCELLANICOLIC		RF18	GD05103160	1/6W	10K Ω	±5%
JV52	YT02060540	MISCELLANEOUS TERMINAL, 6P RCA	DIN JACK	RF19	GD05103160	1/6W	10K Ω	±5%
JV52 JV52		TERMINAL, 6P RCA		RF20	GD05103160	1/6W	10ΚΩ	±5%
JV52	YT02060500 YT02041160	TERMINAL, 4P RCA		RF21	GD05223160	1/6W	22ΚΩ	±5%
JV53	YT02041100	TERMINAL, 4P RCA		RF22 RF23	GD05223160	1/6W	22ΚΩ	±5%
JV54	YT02041110	TERMINAL, 1P RCA			GD05223160	1/6W	22K Ω	±5%
JV54	YT02010780	TERMINAL, 1PRCA		RF24	GD05223160	1/6W	22K Ω	±5%
JV55	YJ06030600	JACK, 30P	FIN JACK BK	RF29	GD05223160	1/6W	22K Ω	±5%
JV56	YP06004570	PLUG, 13P		RF30	GD05223160	1/6W	22K Ω	±5%
JV57	YP06006930			RF31	GD05223160	1/6W	22K Ω	±5%
3457	1100000930	PLUG, 3P		RF32	GD05223160	1/6W	22K Ω	±5%
				RF45	GD05102160	1/6W	1ΚΩ	±5%
				RF46	GD05102160	1/6W	1ΚΩ	±5%
	PF04-TI	ONE P.C. BOARD	and the second	RF81	GD05473160	1/6W	47K Ω	±5%
				RF82	GD05473160	1/6W	47K Ω	±5%
		CAPACITORS		RF83	GD05473160	1/6W	47K Ω	±5%
CF01	EJ10601610		16V	RF84	GD05473160	1/6W	47K Ω	±5%
CF02	EJ10601610		16V				_	
CF03	EJ10601610		16V	55.4		CONTROL		
CF04	OA47601620		16V	RF41	RG01040140	VARIABLE		· ,
CF05	DK16222300 '		±10%	RF42	RG01040140	VARIABLE		
CF06	DK16222300		±10%	RF43	RK01040620	VARIABLE	, 100ΚΩ((W)
CF07	DK16222300		±10%					
CF09	DD15101300	CERAMIC 100PF	±5%	0504		INTEGRAT		
CF10	DD15101300	CERAMIC 100PF	±5%	QF01	HC10031090	IC NJM2		uad OP AMP
CF11	DD15101300		±5%	QF02	HC10008090			ual OP AMP
CF13	DF15153350	FILM 0.015μF		QF03	HC10008090	IC NJM4	558DD D	ual OP AMP
CF14	DF15153350	FILM 0.015μF						
CF15	DF15153350	FILM 0.015μF		1504	VP00000700	MISCELLA		
CF16	DF15473310	FILM 0.047μF	±5%	JF01	YP06006720	PLUG, 11P	,	
CF17	DF15153350	FILM 0.015μF						
CF18	DF15153350	FILM 0.015μF	±5%					
CF18 CF19	DF15153350 DF15153350	FILM 0.015μF FILM 0.015μF	±5% ±5%	P	Loa-VIDEO S	ELECTOR	P.C. B	OARD
CF18 CF19 CF20	DF15153350 DF15153350 DF15473310	FILM 0.015μF FILM 0.015μF FILM 0.047μF	±5% ±5% ±5%	P	I 04-VIDEO 6			OARD
CF18 CF19 CF20 CF21	DF15153350 DF15153350 DF15473310 OA47601620	FILM 0.015μF FILM 0.015μF FILM 0.047μF ELECT 47μF	±5% ±5% ±5%			CAPACITO	ORS	
CF18 CF19 CF20 CF21 CF22	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620	FILM 0.015μF FILM 0.015μF FILM 0.047μF ELECT 47μF ELECT 47μF	±5% ±5% ±5% 16V	CL01	EJ22601010	CAPACITO ELECT	PRS 22μF	- 10V
CF18 CF19 CF20 CF21 CF22 CF23	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620	FILM 0.015μF FILM 0.015μF FILM 0.047μF ELECT 47μF ELECT 47μF ELECT 47μF	±5% ±5% ±5% 16V 16V	CL01 CL02	EJ22601010 EJ10601610	CAPACITO ELECT ELECT)RS 22μF 10μF	- 10V - 16V
CF18 CF19 CF20 CF21 CF22 CF23 CF25	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 47µF ELECT 22µF	±5% ±5% ±5% 16V 16V 16V	CL01 CL02 CL03	EJ22601010 EJ10601610 EJ22601010	CAPACITO ELECT ELECT ELECT	ORS 22μF 10μF 22μF	= 10V = 16V = 10V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF	±5% ±5% 16V 16V 16V 16V 16V	CL01 CL02 CL03 CL04	EJ22601010 EJ10601610 EJ22601010 EJ10601610	CAPACITO ELECT ELECT ELECT ELECT	DRS 22μF 10μF 22μF 10μF	= 10V = 16V = 10V = 16V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF	±5% ±5% ±5% 16V 16V 16V 16V 16V	CL01 CL02 CL03 CL04 CL05	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010	CAPACITO ELECT ELECT ELECT ELECT ELECT	DRS 22μF 10μF 22μF 10μF 22μF	10V 16V 10V 16V 16V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 OA22601620	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V	CL01 CL02 CL03 CL04 CL05 CL06	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT	22μF 10μF 22μF 10μF 10μF 22μF 10μF	= 10V = 16V = 10V = 16V = 10V = 16V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V 16V 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF	= 10V = 16V = 10V = 16V = 10V = 16V = 10V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DA22601620 DD15470300 DD15470300	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 47PF CERAMIC 47PF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF	- 10V - 16V - 10V - 16V - 10V - 16V - 10V - 16V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V 15V ±5%	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DD38104010	CAPACITO ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF 10µF 0.1µF	- 10V - 16V - 10V - 16V - 10V - 16V - 10V - 16V - 16V - 16V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DD38104010 DD38104010	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC	22µF 10µF 22µF 10µF 22µF 10µF 22µF 10µF 0.1µF	10V 16V 10V 16V 16V 16V 16V 16V 16V 16V 16V 180% -20%
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA42601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 OA10701620	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100µF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V ±5% ±5% ±5% ±5%	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ10601610 DD38104010 DD38104010 DK18103310	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC	22µF 10µF 22µF 10µF 22µF 10µF 22µF 10µF 0.1µF 0.1µF	10V 16V 16V 16V 16V 16V 16V 16V 16V 16V 180% -20% +80% -20%
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA2601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 OA10701620 OA10701620	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100µF ELECT 100µF ELECT 100µF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V ±5% ±5% ±5% 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DD38104010 DD38104010 DK18103310 DK18103310	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC	22µF 10µF 22µF 10µF 22µF 10µF 20µF 0.1µF 0.1µF 0.01µF	10V 16V 10V 16V 10V 10V 10V 16V 16V 16V 180% -20% 180% -20% 180% -20%
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DA17223110	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100µF ELECT 100µF ELECT 100µF ELECT 100µF CERAMIC 0.022µF	±5% ±5% 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DD38104010 DD38104010 DK18103310 DK18103310 EA22700610	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF 10µF 0.1µF 0.1µF 0.01µF 0.01µF	10V 16V 10V 16V 10V 16V 10V 16V 16V 16V 180% -20% 180% -20% 180% -20%
CF18 CF19 CF20 CF21 CF22 CF23 CF26 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100µF ELECT 100µF ELECT 100µF ELECT 100µF ELECT 0.022µF CERAMIC 0.022µF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V 16V 16V ±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5%	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ10601610 DD38104010 DD38104010 DK18103310 DK18103310 EA22700610 EA22700610	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC ELECT ELECT CERAMIC CERAMIC ELECT ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.1µF 0.01µF 0.01µF 220µF	= 10V = 16V = 10V = 16V = 10V = 16V = 16V = 16V = 16V = +80% -20% = +80% -20% = +80% -20% = +80% -20% = 6.3V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 OA10701620 OA10701620 DA17223110 DA17223110	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100µF ELECT 100µF ELECT 100µF ELECT 100µF ELECT 100µF ELECT 0.022µF CERAMIC 0.022µF CERAMIC 0.022µF CERAMIC 0.022µF	±5% ±5% 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL19	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 DJ38104010 DD38104010 DK18103310 DK18103310 EA22700610 EA22700610 EJ22601010	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.1µF 0.01µF 220µF 220µF	= 10V = 16V = 10V = 16V = 10V = 16V = 16V = 16V = 16V = +80% -20% = +80% -20% = +80% -20% = 6.3V = 6.3V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF46	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 OA10701620 OA10701620 DA17223110 DA17223110 DA17223110	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 0.022µF	±5% ±5% 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ10601610 DD38104010 DD38104010 DK18103310 DK18103310 EA22700610 EA22700610 EJ22601010 EA10701010	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT	22µF 10µF 22µF 10µF 22µF 10µF 0.1µF 0.1µF 0.01µF 0.01µF 220µF 220µF 220µF	10V 16V 16V 16V 16V 16V 16V 16V 16V +80% -20% +80% -20% 6.3V 6.3V 10V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF46 CF47	DF15153350 DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 OA10701620 OA10701620 DA17223110 DA17223110 DA17223110 DA17223110	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 0.022µF	±5% ±5% 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 DJ38104010 DD38104010 DK18103310 EA22700610 EA22700610 EJ22601010 EA10701010 DK18103310	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC ELECT ELECT ELECT ELECT CERAMIC CERAMIC ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT	22µF 10µF 22µF 10µF 22µF 10µF 0.1µF 0.1µF 0.01µF 220µF 220µF 220µF 100µF	= 10V = 16V = 10V = 16V = 10V = 16V = 16V = 16V = 16V = +80% -20% = +80% -20% = 6.3V = 6.3V = 6.3V = 10V = 1
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF46	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 OA10701620 OA10701620 DA17223110 DA17223110 DA17223110	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 0.022µF	±5% ±5% 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21 CL22 CL23	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DD38104010 DD38104010 DK18103310 EA22700610 EA22700610 EJ22601010 EA10701010 DK18103310 EA22700610	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC ELECT ELECT ELECT ELECT CERAMIC ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.01µF 220µF 220µF 220µF 22µF 22µF	10V 16V 10V 10V 16V 10V 16V 16V 180% -20% +80% -20% +80% -20% 6.3V 6.3V 10V 10V 10V
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF46 CF47	DF15153350 DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 OA10701620 OA10701620 DA17223110 DA17223110 DA17223110 DA17223110	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 0.022µF	±5% ±5% 16V	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21 CL22 CL23 CL31	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DD38104010 DD38104010 DK18103310 EA22700610 EA22700610 EA22700610 EA10701010 DK18103310 EJ22601010 ED38104010 DK18103310	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC ELECT CERAMIC CERAMIC	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.01µF 220µF 220µF 220µF 22µF 100µF 0.01µF 0.01µF	= 10V = 16V = 16V = 10V = 16V = 10V = 16V = 16V = 180% -20% = +80% -20% = +80% -20% = 6.3V = 6.3V = 6.3V = 10V = 1
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF48	DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DA1723110 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110	FILM 0.015µF FILM 0.015µF FILM 0.047µF ELECT 47µF ELECT 47µF ELECT 22µF ELECT 22µF ELECT 22µF ELECT 22µF CERAMIC 47PF CERAMIC 0.022µF	±5% ±5% 16V 16V 16V 16V 16V 16V 16V 16V 16V ±5% ±5% ±5% ±5% ±5% ±20% ±20% ±20%	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21 CL22 CL23 CL31 CX49	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ22601010 EJ22601010 EJ22601010 DJ38104010 DD38104010 DK18103310 EA22700610 EJ22601010 EJ22601010 EJ22601010 DK18103310 EA10701010 DK18103310 EJ22601010 EJ22601010 DK18103310 EJ22601010 DK18103310 EJ22601010 DK18103310 EJ22601010 DK18103310 EJ22601010 DK18103310 EJ22601010 DJ38104010 EJ47502510	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC ELECT CERAMIC ELECT ELECT ELECT CERAMIC ELECT ELECT ELECT CERAMIC ELECT ELECT ELECT CERAMIC ELECT	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.01µF 220µF 220µF 220µF 100µF 0.01µF 22µF 100µF 0.1µF 4.7µF	10V 16V 16V 16V 10V 16V 10V 16V 180% -20% 180% -20% 180% -20% 10V 10V 10V 10V 10V 10V 10V 10V
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CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF46 CF47 CF48 RF01 RF02 RF03 RF04 RF05 RF06 RF07 RF08	DF15153350 DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110 DA1723110	FILM 0.015μF FILM 0.015μF FILM 0.047μF ELECT 47μF ELECT 47μF ELECT 42μF ELECT 22μF ELECT 22μF ELECT 22μF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100μF ELECT 100μF CERAMIC 0.022μF CERAMIC<	±5% ±5% ±5% 16V 16V 16V 16V 16V 16V 16V ±5% ±5% ±5% ±5% ±5% ±5% ±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21 CL22 CL23 CL31 CX49 CX50 CX51 CX52 CX53 CX54 CX55 CX56 CX57	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DJ38104010 DJ38104010 DK18103310 EA22700610 EJ22601010 EA10701010 DK18103310 EA22700610 EJ22601010 DJ38104010 EJ22601010 DJ38104010 EJ22601010 DJ38104010 EJ22601010 DJ38104010 EJ22700610 EA22700610 DK18103310 EA22700610 DK18103310 DK18103310 DD15220300 DD15220300 DD15220300	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.01µF 220µF 220µF 220µF 22µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF	5 10V 5 16V 5 16V 5 16V 5 16V 6 10V 6 16V 6
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF46 CF47 CF48 RF01 RF02 RF03 RF04 RF05 RF06 RF07 RF08 RF09	DF15153350 DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110 DA17233110	FILM 0.015μF FILM 0.015μF FILM 0.047μF ELECT 47μF ELECT 47μF ELECT 47μF ELECT 22μF ELECT 22μF ELECT 22μF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100μF ELECT 100μF CERAMIC 0.022μF CERAMIC <td>士5% 士5% 士5% 16V 16V 16V 16V 16V 16V 16V 16V 世5% 士5% 士5% 士5% 士20% 士20% 士20% 士20% 士20% 士20% 士20% 士20</td> <td>CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21 CL22 CL23 CL31 CX49 CX50 CX51 CX52 CX53 CX54 CX55 CX56 CX57 CX58</td> <td>EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DJ38104010 DD38104010 DK18103310 EA22700610 EA22700610 EJ22601010 DK18103310 EA42700610 EA47601010 DJ38104010 EJ22601010 DJ38104010 DJ38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 DJ38104010 EJ22601010 DD15220300 DD15220300 DD15220300 DD15220300 DD15220300 DD15220300</td> <td>CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC</td> <td>22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.01µF 220µF 220µF 220µF 22µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF</td> <td>5 10V 5 16V 5 16V 5 16V 5 16V 5 16V 6 10V 6 16V 6 16V 6 180% -20% 6 180% -20% 6 10V 6 10</td>	士5% 士5% 士5% 16V 16V 16V 16V 16V 16V 16V 16V 世5% 士5% 士5% 士5% 士20% 士20% 士20% 士20% 士20% 士20% 士20% 士20	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21 CL22 CL23 CL31 CX49 CX50 CX51 CX52 CX53 CX54 CX55 CX56 CX57 CX58	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DJ38104010 DD38104010 DK18103310 EA22700610 EA22700610 EJ22601010 DK18103310 EA42700610 EA47601010 DJ38104010 EJ22601010 DJ38104010 DJ38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 EJ22601010 DD38104010 DJ38104010 EJ22601010 DD15220300 DD15220300 DD15220300 DD15220300 DD15220300 DD15220300	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.01µF 220µF 220µF 220µF 22µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF	5 10V 5 16V 5 16V 5 16V 5 16V 5 16V 6 10V 6 16V 6 16V 6 180% -20% 6 180% -20% 6 10V 6 10
CF18 CF19 CF20 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF40 CF41 CF43 CF44 CF45 CF46 CF47 CF48 RF01 RF02 RF03 RF04 RF05 RF06 RF07 RF08	DF15153350 DF15153350 DF15153350 DF15473310 OA47601620 OA47601620 OA22601620 OA22601620 OA22601620 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110 DA17223110 DA17233110	FILM 0.015μF FILM 0.015μF FILM 0.047μF ELECT 47μF ELECT 47μF ELECT 42μF ELECT 22μF ELECT 22μF ELECT 22μF CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF ELECT 100μF ELECT 100μF CERAMIC 0.022μF CERAMIC<	±5% ±5% ±5% 16V 16V 16V 16V 16V 16V 16V ±5% ±5% ±5% ±5% ±5% ±5% ±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20	CL01 CL02 CL03 CL04 CL05 CL06 CL09 CL10 CL14 CL15 CL16 CL17 CL18 CL19 CL20 CL21 CL22 CL23 CL31 CX49 CX50 CX51 CX52 CX53 CX54 CX55 CX56 CX57	EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 EJ22601010 EJ10601610 DJ38104010 DJ38104010 DK18103310 EA22700610 EJ22601010 EA10701010 DK18103310 EA22700610 EJ22601010 DJ38104010 EJ22601010 DJ38104010 EJ22601010 DJ38104010 EJ22601010 DJ38104010 EJ22700610 EA22700610 DK18103310 EA22700610 DK18103310 DK18103310 DD15220300 DD15220300 DD15220300	CAPACITO ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	22µF 10µF 22µF 10µF 22µF 10µF 22µF 0.1µF 0.01µF 220µF 220µF 220µF 22µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF 0.01µF 220µF	5 10V 5 16V 5 16V 5 16V 5 16V 6 10V 6 16V 6

Re	<u>f. No</u> .	Part. No.	<u>Description</u>	Ref. No.	Part. No.		Description	
C	X60	DD15560300	CERAMIC 56PF ±5%	DL07	HD20002000	1SS176		
	X61	EJ10505010	ELECT 1µF 50V	DL08	HD20002000	1SS176		
	X62	DK16122300	CERAMIC 1200PF ±10%	DL09	HD20002000	1SS176		
	X63	EJ10505010	ELECT 1µF 50V					
	X64	DF15682350	FILM 0.0068µF ±5%	DL10	HD20002000	1SS176		
	X65	DF15223350		DX61	HD20002000	1SS176		
			FILM 0.022μF ±5%		•			
	X66	DD15470300	CERAMIC 47PF ±5%			COILS		
	X67	CT12000200	TRIMMING 20PF	LX51	LC12233800	CHOKE, 22		
	X69	EA47601010	ELECT 47μF 10V	LX52	LC15623800	CHOKE, 5.6	θμΗ	
	X70	EJ47502510	ELECT 4.7μF 25V					
	X72	DK18103310	CERAMIC 0.01µF +80% -20%	6		MISCELLA	NEOUS	
	X73	EA22700610	ELECT 220μF 6.3V	JL01	YT02041130	TERMINAL,	, 4P RCA PIN JACK	
	X74	EJ10505010	ELECT 1μF 50V	JL02	YT02030370	TERMINAL,	, 3P RCA PIN JACK	
	X75	EJ22601010	ELECT 22µF 10V	JL03	YP06020640	PLUG, 14P		
C	X76	EA10701010	ELECT 100μF 10V	LX53	FM12223010	EMI FILTER	3	
				XX51	JX14001260		14.31818MHz	
			RESISTORS	XX52	JX17001260		17.7MHz (IB)	
RL	_01	GD05820160	1/6W 82 Ω ±5%					
RL	_02	GD05100160	1/6W 10 Ω ±5%					
RL	_03	GD05820160	1/6W 82 Ω ±5%					882
	_04	GD05100160	1/6W 10 Ω ±5%		PL54-5-V	IDEO P.C.	BOARD	
	_05	GD05820160	1/6W 82 Ω ±5%					
	_06	GD05100160	1/6W 10 Ω ±5%	01.74		CAPACITO		
	_07	GD05750160	1/6W 75 Ω ±5%	CL51	EJ10601610	ELECT	10μF 16V	
	-09	GD05820160	1/6W 82 Ω ±5%	CL52	EJ10601610	ELECT	10μF 16V	
	_10	GD05100160	1/6W 10 Ω ±5%	CL53	EJ10601610	ELECT	10μF 16V	
	.11	GD05750160	1/6W 75 Ω ±5%	CL54	EJ10601610	ELECT	10μF 16V	
	.15	GD05750160		CL55	EJ10601610	ELECT	10μF 16V	
	17	GD05700100	1/6W 75 Ω ±5% 1/6W 100K Ω ±5%	CL56	EJ10601610	ELECT	10μF 16V	
	.18	GD05104160	1/6W 100K Ω ±5%	CL57	EJ10601610	ELECT	10μF 16V	
	.19	GD05472160		CL58	EJ10601610	ELECT	10μF 16V	
	(51			CL59	EJ10601610	ELECT	10μF 16V	
	(52	GD05333160	1/6W 33KΩ ±5%	CL60	EJ10601610	ELECT	10μF 16V	
		GD05221160	1/6W 220 Ω ±5%	CL61	EJ10601610	ELECT	10μF 16V	
	(53	GD05105160	1/6W 1MΩ ±5%	CL62	EJ10601610	ELECT	10μF 16V	
	<54	GD05105160	1/6W 1MΩ ±5% 📵	CL63	EJ10601610	ELECT	10μF 16V	
	(55	GD05103160	1/6W 10K Ω ±5%	CL64	EJ10601610	ELECT	10μF 16V	
	(56	GD05103160	1/6W 10KΩ ±5%	CL65	DD38104010	CERAMIC	0.1µF +80% -20%	
	(57	GD05103160	1/6W 10KΩ ±5%	CL66	DD38104010	CERAMIC	0.1µF +80% -20%	
	(59	GD05221160	1/6W 220 Ω ±5%	CL67	DD38104010	CERAMIC	0.1μF +80% -20%	
	(60	GD05152160	1/6W 1.5K Ω ±5%	CL68	DD38104010	CERAMIC	0.1µF +80% -20%	
	(61	GD05682160	1/6W 6.8K Ω ±5%	CL69	DD38104010	CERAMIC	0.1µF +80% -20%	
	(62	GD05102160	1/6W 1K Ω ±5%	CL70	DD38104010	CERAMIC	0.1µF +80% -20%	
	(65	GD05102160	1/6W 1K Ω ±5%	CL71	EA10700610	ELECT	100μF 6.3V	
	(66	GD05102160	1/6W 1K Ω ±5%	CL72	DK18103310	CERAMIC	0.01μF +80% -20%	
	(67	GD05104160	1/6W 100K Ω ±5%	CL73	DK18103310	CERAMIC	0.01µF +80% -20%	
	(68	GD05223160	$1/6W$ 22K Ω ±5%	CL74	EA10700610	ELECT	100μF 6.3V	
RX	(69	GD05471160	1/6W 470 Ω ±5%	CL75	EA10700610	ELECT	100μF 6.3V	
				CL76	DK18103310	CERAMIC	0.01μF +80% -20%	
			INTEGRATED CIRCUITS	CL77	DK18103310	CERAMIC	0.01µF +80% -20%	
QL		HC10275030	IC LC7824 Analogue Switch	CL78	EA10700610	ELECT	100μF 6.3V	
		HC10275030	IC LC7824 Analogue Switch	CL79	DK18103310	CERAMIC	0.01μF +80% -20%	
QL	.03	HC10046170	IC MC14576 Dual Video AMP	OLIO	DICTOTOGGTO	OLITAMIO	0.01μ1- +80% -20%	
QL	.04	HC12233090	IC NJM2233BD			DECISTORS		
			Single Video AMP	RL51	GD05100160	RESISTORS		
QX	(60	HC10328030	IC LC74760-9004 OSD LSI	RL52		1/6W	10 Ω ±5%	
QX	(63	HC10141090	IC NJM2267D Dual Video AMF		GD05100160	1/6W	10 Ω ±5%	
				HLOO	GD05100160	1/6W	10 Ω ±5%	
			TRANSISTORS	RL54	GD05100160	1/6W	10 Ω ±5%	
QX	(61	HT30001000	2SC536SP	RL55	GD05820160	1/6W	82 Ω ±5%	
		BA20002000	DIGITAL DTC144ES/UN4213	RL56	GD05820160	1/6W	82 Ω ±5%	
		HT30001000	2SC536SP	RL57	GD05820160	1/6W	82 Ω ±5%	
٠,			2000001	RL58	GD05820160	1/6W	82 Ω ±5%	
			DIODES	RL59	GD05820160	1/6W	82 Ω ±5%	
DL	01	HD20002000		RL60	GD05820160	1/6W	82 Ω ±5%	
DL			1SS176	RL61	GD05820160	1/6W	82 Ω ±5%	
		HD20002000	1SS176	RL62	GD05820160	1/6W	82 Ω ±5%	
DL		HD20002000	1SS176	RL63	GD05750160	1/6W	75 Ω ±5%	
DL		HD20002000	1SS176	RL64	GD05750160	1/6W	75 Ω ±5%	
DL		HD20002000	1SS176	•				
DL	UO	HD20002000	1SS176					

Ref. No.	Part. No.	<u>Description</u>	Ref. No.	Part. No.	<u>Description</u>
RL65	GD05750160	1/6W 75 Ω ±5%	WL01	YB00152110	CONNECTIVE CORD, 1P
RL66	GD05750160	1/6W 75 Ω ±5%			
RL67	GD05750160	1/6W 75 Ω ±5%			
RL68 RL69	GD05750160 GD05104160	1/6W 75 Ω ±5% 1/6W 100K Ω ±5%	PN54-	SPK PROTE	CT P.C. BOARD (AVR80MK [])
RL70	GD05104160	1/6W 100K Ω ±5%			
RL71	GD05104160	1/6W 100K Ω ±5%	CN81	E 110505010	CAPACITORS
RL72	GD05104160	1/6W 100K Ω ±5%	CN82	EJ10505010 EJ10505010	ELECT 1μF 50V ELECT 1μF 50V
RL73	GD05104160	1/6W 100K Ω ±5%	CN83	DD38104010	CERAMIC 0.1µF +80% -20%
RL74	GD05104160	1/6W 100K Ω ±5%			
		INTEGRATED CIRCUITS	Dillo	0000	RESISTORS
QL51	HC10275030	IC LC7824 Analogue Switch	RN83	GD05473160	1/6W 47K Ω ±5%
QL52	HC10275030	IC LC7824 Analogue Switch	RN84 RN85	GD05473160 GD05104160	1/6W 47K Ω ±5% 1/6W 100K Ω ±5%
QL53	HC10275030	IC LC7824 Analogue Switch	RN86	GD05103160	1/6W 10K Ω ±5%
QL54	HC10275030	IC LC7824 Analogue Switch	RN87	GD05473160	1/6W 47KΩ ±5%
QL55 QL56	HC10046170	IC MC14576 Dual Video AMP	RN88	GD05473160	1/6W 47K Ω ±5%
QL57	HC10046170 HC10046170	IC MC14576 Dual Video AMP IC MC14576 Dual Video AMP			
		in the first baar trade / this	QN84	HC10042050	INTEGRATED CIRCUITS IC TA7317P Over Load Protector
		MISCELLANEOUS	GIVOT	11010042000	IC TA7317F Over Load Protector
JL51	YT02021320	TERMINAL, 2P			TRANSISTORS
JL52 JL53	YT02021320	TERMINAL, 2P	QN81	BA10007210	DIGITAL DTA114ES
JL53 JL54	YT02030350 YP06020600	TERMINAL, 3P PLUG, 10P	QN82	HT322402A0	2SC2240 (GR, BL)
JL55	YL01010140	TERMINAL GND	QN83	HT322402A0	2SC2240 (GR, BL)
					DIODES
	PL94-AL	IX IN P.C. BOARD	DN81	HD20002000	1SS176
			DN82	HD20002000	1SS176
CL91	EJ10601610	CAPACITORS			MODELLANGOUG
CL91	EJ22601610	ELECT 10μF 16V ELECT 22μF 16V	JN81	YJ06019130	MISCELLANEOUS JACK, 13P
CL93	EJ10601610	ELECT 10µF 16V	JN82	YP06007130	PLUG, 3P
CL94	EJ10601610	ELECT 10µF 16V			
CL95	DD38104010	CERAMIC 0.1μF +80% -20%	407/78/907003/703/03/03/03/03/03/03/03/03/03/03/03/03/0		
CL96 CL97	DD38104010 DK16221300	CERAMIC 0.1μF +80% -20% CERAMIC 220PF ±10% (Β) [MOMS]		PP04-SURRO	UND AMP P.C. BOARD
CL97	DK16102300	CERAMIC 1000PF ±10% (B) (AVR80)			
CL98	DK16221300	CERAMIC 220PF ±10% [B [MOMS]	CP01	DK16102300	CAPACITORS CERAMIC 1000PF ±10%
CL98	DK16102300	CERAMIC 1000PF ±10% (B) (AVR80)	CP02	DK16102300	CERAMIC 1000PF ±10%
		DE0105000	CP03	EQ10606390	ELECT 10µF 63V
RL91	GD05100160	RESISTORS 1/6W 10 Ω ±5%	CP04	EQ10606390	ELECT 10μF 63V
RL92	GD05750160	1/6W 10 Ω ±5% 1/6W 75 Ω ±5%	CP05	EA10701610	ELECT 100μF 16V
RL93	GD05750160	1/6W 75 Ω ±5%	CP06 CP07	EA10701610 DD11100300	ELECT 100µF 16V
RL94	GD05750160	1/6W 75 Ω ±5%	CP07	DD11100300	CERAMIC 10PF ±0.5PF BK
RL95	GD05100160	1/6W 10 Ω ±5%	CP08	DD11100300	CERAMIC 10PF ±0.5PF B
RL96	GD05100160	1/6W 10 Ω ±5%	CP08	DD10030300	CERAMIC 3PF ±0.25PF BK
RL97 RL98	GD05102160 GD05102160	1/6W 1K Ω ±5% B [MOMS] 1/6W 1K Ω ±5% B [MOMS]	CP09	EJ22405010	ELECT 0.22μF 50V
RU06	GD05332160	1/6W 3.3K Ω ±5%	CP10	EJ22405010	ELECT 0.22µF 50V
RU08	GD05682160	1/6W 6.8K Ω ±5%	CP11 CP12	EJ22405010 EJ22405010	ELECT 0.22μF 50V ELECT 0.22μF 50V
RU10	GD05103160	1/6W 10K Ω ±5%	CP13	EA10706310	ELECT 100μF 63V
RU38	GD05151160	1/6W 150 Ω ±5%	CP14	EA10606310	ELECT 10µF 63V
		DIODES	CP15	EA10706310	ELECT 100μF 63V
DU46	HI10095320	L.E.D. LT3K44B (GRN)	CP16	EA10606310	ELECT 10μF 63V
DU47	HI10095320	L.E.D. LT3K44B (GRN)	CP17 CP21	EJ22601010	ELECT 22µF 10V
		,	CP21	DD15470300 DD15470300	CERAMIC 47PF ±5% IB CERAMIC 47PF ±5% IB
11.04	DV04040000	MISCELLANEOUS			111 2070
JL91 JL92	BY04040020 YP06007260	TERMINAL, AUX / S-VIDEO IN PLUG, 8P			RESISTORS
JU05	YJ06018040	JACK, 4P	RP01	GD05102160	1/6W 1KΩ ±5% IB
SU07	SP01011280	PUSH SWITCH, TACT	RP01	GD05471160	1/6W 470 Ω ±5% BK
SU09	SP01011280	PUSH SWITCH, TACT	RP02 RP02	GD05102160 GD05471160	1/6W 1K Ω ±5% \blacksquare 1/6W 470 Ω ±5% \blacksquare K
SU11	SP01011280	PUSH SWITCH, TACT	RP03	GD05473160	1/6W 47KΩ ±5%
			RP04	GD05473160	1/6W 47KΩ ±5%
			RP05	GD05563160	1/6W 56K Ω ±5%
			RP06	GD05563160	1/6W 56K Ω ±5%

Ref. N	lo. Part. No.		Descrip	tion	Ref. No.	Part. No.	<u>1</u>	Description
RP07	GD05182160	1/6W	1.8K Ω	±5%	CS19	DD38104010	CEDAMIC	0.4.5 000/ 000/
RP08		1/6W	1.8K Ω	±5%	CS21	DD38104010	CERAMIC	0.1μF +80% -20%
RP09		1/6W	51KΩ	±5%	CS22		CERAMIC	0.1μF +80% -20%
RP10		1/6W	51KΩ	±5%		DD38104010	CERAMIC	0.1μF +80% -20%
▲ RP11		3W	0.22 Ω	±10%	CS23 CS24	DK16151300	CERAMIC	150PF ±10% (B)
▲RP12						DK16151300	CERAMIC	150PF ±10% (B)
▲ RP13		3W	0.22 Ω	±10%	CS25	DK16151300	CERAMIC	150PF ±10% (B)
▲ RP14		1/6W	1ΚΩ	±5%	CS26	DK16151300	CERAMIC	150PF ±10% (B)
		1/6W	1ΚΩ	±5%	CS27	DK16221300	CERAMIC	220PF ±10% (B)
RP15		1/6W	1ΚΩ	±5%	CS28	DK16221300	CERAMIC	220PF ±10% IB
RP16		1/6W	1ΚΩ	±5%	CS29	DK16151300	CERAMIC	150PF ±10% IB
RP17		1/6W	27ΚΩ	±5%	CS30	DK16151300	CERAMIC	150PF ±10% IB
RP18		1/6W	27ΚΩ	±5%	CS31	DK16221300	CERAMIC	220PF ±10% IB
RP19		1/6W	22K Ω	±5%	CS32	DK16221300	CERAMIC	220PF ±10% IB
RP20		1/6W	22K Ω	±5%	CS33	DK16221300	CERAMIC	220PF ±10% IB
▲RP21	GA05100010	1W	10 Ω	±5%	CS34	DK16221300	CERAMIC	220PF ±10% (B)
▲RP22		1W	10 Ω	±5%	CS35	DK16221300	CERAMIC	220PF ±10% IB
RP23		1/6W	220 Ω	±5% 📵	CS36	DK16221300	CERAMIC	220PF ±10% IB
RP23		1/6W	180 Ω	±5% BK	CS37	DK16221300	CERAMIC	220PF ±10% IB
RP24		1/6W	220 Ω	±5% (B)	CS38	DK16221300	CERAMIC	220PF ±10% IB
RP24		1/6W	180 Ω	±5% BK				
▲RP25		1/6W	100 Ω	±5%			RESISTORS	
▲RP26	GG05101160	1/6W	100Ω	±5%	RS01	GD05473160		7K Ω ±5%
RP27	GD05682160	1/6W	6.8K Ω	±5%	RS02	GD05473160		7K Ω ±5%
RP28	GD05333160	1/6W	33K Ω	±5%	RS03	GD05473160		'KΩ ±5%
RP29	GD05100160	1/6W	100 Ω	±5%	RS04	GD05473160		7K Ω ±5%
RP99	GG05100140	1/4W	10 Ω	±5%	RS05	GD05473160		7K Ω ±5%
					RS06	GD05473160		'KΩ ±5%
		INTEGRA	TED CIRC	UITS	RS07	GD05102160		KΩ ±5%
▲ QP01	HC10357030		401-140		RS08	GD05102160		KΩ ±5%
		AF P	ower AMP	(2ch)	RS09	GD05102160		KΩ ±5%
				` '	RS10	GD05102160		KΩ ±5%
		TRANSIS	TORS		RS11	GD05102160		KΩ ±5%
QP02	HT322402A0	2SC2240			RS12	GD05102160		KΩ ±5%
QP03	HT322402A0	2SC2240			RS13	GD05473160		'KΩ ±5%
QP04	HT109702A0	2SA970 (, ,		RS14	GD05473160		'KΩ ±5%
					RS15	GD05473160		'KΩ ±5%
		DIODES			RS16	GD05473160		ΚΩ ±5%
DP01	HD20027010	HSS81TD)		RS17	GD05473160		KΩ ±5%
DP02	HD20027010	HSS81TD			RS18	GD05473160		KΩ ±5%
					RS19	GD05473160		KΩ ±5%
		COILS			RS20	GD05473160		KΩ ±5%
LP01	ML08010030	AIR, SPK	CHOCK		RS21	GD05102160		
LP02	ML08010030	AIR, SPK			RS22	GD05102160		ΚΩ ±5% ΚΩ ±5%
		,			RS23	GD05473160		
		MISCELL	ANFOUS		RS24	GD05473160		
JP01	YP06006930	PLUG, 3P			RS25	GD05473160		
		,			RS26	GD05473160		ΚΩ ±5% ΚΩ ±5%
WP03	YB00170870	CONNEC	TIVE CORE	1P (P)	RS27	GD05473160 GD05102160		
55				,	RS28	GD05102160 GD05102160		ΚΩ ±5% ΚΩ ±5%
	DOM AUDIO	FUNCTIO			RS29	GD05102100		
	PS04-AUDIO I	-cide I(0)	Y P.C. H	JANU	RS30	GD05104160	1/6W 100	
		CADAGE	one		RS31	GD05104160	1/6W 100	
Cent	E 110001010	CAPACIT		401/	RS32	GD05104160	1/6W 100	
CS01 CS02	EJ10601610	ELECT		16V	RS33	GD05104160	1/6W 100	
CS02	EJ10601610	ELECT		16V	RS34	GD05104160	1/6W 100	
	EJ10601610	ELECT		16V	RS37			
CS04	EJ10601610	ELECT		16V	RS38	GD05182160	1/6W 1.8I	
CS05	EJ10601610	ELECT		16V	RS39	GD05182160 GD05103160		〈Ω ±5%
CS06	EJ10601610	ELECT	10μF					KΩ ±5%
CS07	EJ47502510	ELECT	4.7μF		RS40	GD05103160	1/6W 10	KΩ ±5%
CS08	EJ47502510	ELECT	4.7μF				IMTEORATES	OIDOLUTO
CS09	EA10701610	ELECT	100μF		0004	HC1000000	INTEGRATED	
CS10	EA10701610	ELECT	100μF		QS01	HC10008090		DD Dual OP AMP
CS11	EJ47502510	ELECT	4.7μF		QS02	HC10008090		DD Dual OP AMP
CS12	EJ47502510	ELECT	4.7μF		QS03	HC10008090		DD Dual OP AMP
CS13	EA10701610	ELECT	100μF		QS05	HC10008090		DD Dual OP AMP
CS14	EA10701610	ELECT	100µF		QS11	HC10308030	IC LC78211	Analogue Switch
CS15	EJ47502510	ELECT	4.7μF		QS12	HC10310030	IC LC78213	Analogue Switch
CS16	EJ47502510	ELECT	4.7μF	25V	QS13	HC10008090	IC NJM4558I	DD Dual OP AMP
CS17	EJ10601610	ELECT	10μF					
CS18	EJ10601610	ELECT	10μF	16V				

Ref. No.	Part. No.	<u> i</u>	<u>Description</u>	<u>n</u>	Ref. No.	Part. No.		Descript	ion
		TRANSISTO	RS		CS95	DK16151300	CERAMI	C 150PF	±10% 📵
QS07	HT421442A0	2SD2144S (I			CS96	DK16151300	CERAMI		±10% 📵
QS08 QS09	HT421442A0	2SD2144S (I					DEGIOTA		
QS10	BA20001000 BA10001000		OTA114ES		RG51	GD05473160	RESISTO 1/6W		150/
GO 10	D/110001000	DIGITAL D	TATITEO		RG52	GD05473160 GD05473160	1/6W	47K Ω 47K Ω	±5% ±5%
		MISCELLAN	IEOUS		RG53	GD05471160	1/6W	470 Ω	±5%
JS01	YT02060460	TERMINAL,	6P RCA PI	N JACK	RG54	GD05471160	1/6W	470 Ω	±5%
JS02	YT02040940	TERMINAL,	4P RCA PI	N JACK	RG55	GD05473160	1/6W	$47K\Omega$	±5%
JS03 JS04	YJ06030570	JACK, 16P	OND		RG56	GD05473160	1/6W	47K Ω	±5%
J304	YL01010140	TERMINAL,	GND		RG57 RG58	GD05104160	1/6W	100K Ω	±5%
					RG59	GD05104160 GD05334160	1/6W 1/6W	100K Ω 330K Ω	±5% ±5%
DC	S54-V-AUDIO	EUNCTION	DC BA	APD	RG60	GD05334160	1/6W	330K Ω	±5%
				Anu	RG61	GD05152160	1/6W	1.5K Ω	±5%
		CAPACITOR	RS		RG62	GD05152160	1/6W	1.5K Ω	±5%
CG51	EJ47502510	ELECT	4.7μF 2	25V	RG63	GD05472160	1/6W	4.7K Ω	±5%
CG52	EJ47502510	ELECT	4.7μF 2		RG64	GD05472160	1/6W	4.7K Ω	±5%
CG55	EJ47502510	ELECT	4.7μF 2		RG65 RG66	GD05331160 GD05331160	1/6W	330 Ω	±5%
CG56 CG57	EJ47502510	ELECT	4.7μF 2		RG67	GD05331160 GD05473160	1/6W 1/6W	330 Ω 47K Ω	±5% ±5%
CG57	EJ47502510 EJ47502510	ELECT ELECT	4.7μF 2 4.7μF 2		RG68	GD05473160	1/6W	47KΩ	±5%
CG59	EJ47502510	ELECT	4.7μF 2		RG69	GD05103160	1/6W	10K Ω	±5%
CG60	EJ47502510	ELECT	4.7μF 2			GD05103160	1/6W	10K Ω	±5%
CG61	DK16101300	CERAMIC		:10% B	RG71	GD05471160	1/6W	470 Ω	±5%
CG62	DK16101300	CERAMIC		:10% B	RG72 RS51	GD05471160	1/6W	470 Ω	±5%
CG63 CG64	EJ47502510 EJ47502510	ELECT ELECT	4.7μF 2		RS52	GD05473160 GD05473160	1/6W 1/6W	47K Ω 47K Ω	±5% ±5%
CS51	EJ10601610	ELECT	4.7μF 2 10μF 1		RS53	GD05473160	1/6W	47KΩ	±5%
CS52	EJ10601610	ELECT	10μF 1		RS54	GD05473160	1/6W	47K Ω	±5%
CS53	EJ10601610	ELECT	10μF 1		RS55	GD05473160	1/6W	47K Ω	±5%
CS54	EJ10601610	ELECT	10μF 1		RS56	GD05473160	1/6W	47K Ω	±5%
CS55	EJ10601610	ELECT	10μF 1		RS57 RS58	GD05473160 GD05473160	1/6W 1/6W	47K Ω 47K Ω	±5% ±5%
CS56 CS57	EJ10601610 EJ10601610	ELECT ELECT	10μF 1 10μF 1		RS59	GD05102160	1/6W	1ΚΩ	±5%
CS58	EJ10601610	ELECT	10μF 1		RS60	GD05102160	1/6W	1ΚΩ	±5%
CS59	EJ47502510	ELECT	4.7μF 2		RS61	GD05102160	1/6W	1ΚΩ	±5%
CS60	EJ47502510	ELECT	4.7μF 2		RS62	GD05102160	1/6W	1ΚΩ	±5%
CS61	DD38104010	CERAMIC		80% -20%	RS63 RS64	GD05102160 GD05102160	1/6W	1KΩ	±5%
CS62 CS63	EA10701610 EA10701610	ELECT	100μF 1 100μF 1		RS65	GD05102160	1/6W 1/6W	1ΚΩ 1ΚΩ	±5% ±5%
CS65	EA10701610	ELECT	100μF 1		RS66	GD05102160	1/6W	1ΚΩ	±5%
CS66	EA10701610	ELECT	100μF 1		RS67	GD05473160	1/6W	47K Ω	±5%
CS68	DD38104010	CERAMIC	0.1μF +	80% -20%	RS68	GD05473160	1/6W	$47K\Omega$	±5%
CS69	DD38104010	CERAMIC		80% -20%	RS69	GD05473160	1/6W	47K Ω	±5%
CS70	DD38104010	CERAMIC		80% -20%	RS70 RS71	GD05473160 GD05473160	1/6W 1/6W	47ΚΩ 47ΚΩ	±5%
CS71 CS72	DK16151300 DK16151300	CERAMIC CERAMIC	150PF ± 150PF ±		RS72	GD05473160	1/6W	47KΩ	±5% ±5%
CS73	DK16151300	CERAMIC	150PF ±		RS73	GD05473160	1/6W	47K Ω	±5%
CS74	DK16151300	CERAMIC	150PF ±		RS74	GD05473160	1/6W	47K Ω	±5%
CS75	DK16151300	CERAMIC	150PF ±	10% B		GD05104160	1/6W	100K Ω	±5%
CS76	DK16151300	CERAMIC	150PF ±	10% (B)	RS76	GD05104160	1/6W	100K Ω	±5%
CS77	DK16151300	CERAMIC	150PF ±		RS77 RS78	GD05102160 GD05102160	1/6W 1/6W	1ΚΩ 1ΚΩ	±5% ±5%
CS78 CS79	DK16151300 DK16221300	CERAMIC CERAMIC	150PF ± 220PF ±		RS79	GD05473160	1/6W	47KΩ	±5%
CS80	DK16221300	CERAMIC	220PF ±		RS80	GD05473160	1/6W	47K Ω	±5%
CS81	DK16221300	CERAMIC	220PF ±		RS81	GD05473160	1/6W	47K Ω	±5%
CS82	DK16221300	CERAMIC	220PF ±	10% (B)	RS82	GD05473160	1/6W	47K Ω	±5%
CS83	DK16221300	CERAMIC	220PF ±	10% 📵	RS83	GD05102160	1/6W	1ΚΩ	±5%
CS84	DK16221300	CERAMIC	220PF ±		RS84 RS85	GD05102160	1/6W	1ΚΩ	±5%
CS85	DK16221300	CERAMIC	220PF ±		RS86	GD05104160 GD05104160	1/6W 1/6W	100K Ω 100K Ω	±5%
CS86 CS87	DK16221300 DK16221300	CERAMIC CERAMIC	220PF ±		RS93	GD05104160 GD05473160	1/6W	47K Ω	±5% ±5%
CS88	DK16221300 DK16221300	CERAMIC	220PF ±		RS94	GD05473160	1/6W	47K Ω	±5%
CS89	DK16221300	CERAMIC	220PF ±						
CS90	DK16221300	CERAMIC	220PF ±					TED CIRCUI	
CS93	EJ10601610	ELECT	10μF 10	6V	QG55	HC10008090			al OP AMP
CS94	EJ10601610	ELECT	10μF 10	6V	QG56 QG57	HC10008090 HC10304050	IC NJM4 IC TC92		al OP AMP
								ric Volume (2	ch)

Ref. No.	Part. No.	Description	Ref. No.	Part. No.	Description
QS51	HC10008090	IC NJM4558DD Dual OP AMP	RU34	GD05103160	1/6/W 10K O +E9/ (A)/D00MKT)
QS52	HC10008090	IC NJM4558DD Dual OP AMP	RU36	GD05151160	1/6W 10K Ω ±5% (AVR80MK II) 1/6W 150 Ω ±5%
QS53	HC10008090	IC NJM4558DD Dual OP AMP	RU37		
QS54	HC10008090		RU39	GD05151160	1/6W 150 Ω ±5%
QS55	HC10008090			GD05471160	1/6W 470 Ω ±5%
QS56			RU40	GD05473160	1/6W 47K Ω ±5%
	HC10308030	IC LC78211 Analogue Switch	RU41	GD05472160	$1/6W$ 4.7K Ω ±5%
QS57	HC10309030	IC LC78212 Analogue Switch	RU42	GD05472160	$1/6W$ 4.7K Ω ±5%
QS91	HC10008090	IC NJM4558DD Dual OP AMP	RU43	GD05182160	1/6W 1.8K Ω ±5%
			RU44	GD05182160	1/6W 1.8K Ω ±5%
0054		TRANSISTORS	RU45	GD05473160	$1/6W$ 47K Ω ±5%
QG51	HT421442A0	2SD2144S, U, V	RU46	GD05103160	1/6W 10K Ω ±5%
QG52	HT421442A0	2SD2144S, U, V			
QG59 QG60	HT421442A0 HT421442A0	2SD2144S, U, V 2SD2144S, U, V	QU01	HU260JT120	INTEGRATED CIRCUITS MICROPROCESSOR
QS59	HT421442A0	2SD2144S, U, V	QU18	HC712500B0	TMP87CP71F IC 74HC125
QS60	HT421442A0	2SD2144S, U, V	40.0	11071200000	Quad Bus Buffer Gates
QS61	BA10001000	DIGITAL DTA114ES			Quad bus buile! Gales
QS62	BA20001000	DIGITAL DTC114ES			TRANSISTORS
GOOL	D/120001000	DIGITAL DIGITALS	QU02	PA10007010	TRANSISTORS
		MISCELLANEOUS	QU02	BA10007210	DIGITAL DTA114ES
JS51	YT02060460			HT30001000	2SC536SP
JS52		TERMINAL, 6P R CA PIN JACK	QU04	BA20012210	DIGITAL DTC144ES
JS54	YT02080110	TERMINAL, 8P R CA PIN JACK	QU05	BA20010210	DIGITAL DTC114ES
J554	YJ06030580	JACK, 20P	QU07	HT30001000	2SC536SP
			QU08	BA20012210	DIGITAL DTC144ES
			QU09	BA20012210	DIGITAL DTC144ES
	PU04-FR	ONT P.C. BOARD	QU10	BA10010210	DIGITAL DTA144ES
			QU11	BA10003210	DIGITAL DTA114TS
		CAPACITORS	QU12	BA10007210	DIGITAL DTA114ES
CU01	DA17223110	CERAMIC 0.022μF ±20%	QU14	BA10010210	DIGITAL DTA144ES
CU02	EJ47601010	ELECT 47μF 10V	QU15	BA20012210	DIGITAL DTC144ES
CU03	EJ22700610	ELECT 220μF 6.3V	QU16	HW10001210	PHOTO UNIT, IR RECIVER
CU04	DA17223110	CERAMIC 0.022μF ±20%	QU17	BA10007210	DIGITAL DTA114ES
CU05	DA17104110	CERAMIC 0.1μF ±20%	QU19	HT30001000	2SC536SP (AVR80MKII)
CU07	EX22300530	BIG ELECT 0.22F 5.5V	QU20	HT30001000	2SC536SP (AVR80MKII)
CU10	DA17223110	CERAMIC 0.022μF ±20%	QU21	HT10001000	2SA608SP (AVR80MKII)
CU11	DA17223110	CERAMIC 0.022μF ±20%			
CU12	DA17223110	CERAMIC 0.022μF ±20%			DIODES
CU13	DD38104010	CERAMIC 0.1μF +80% -20%	DU01	HD20029210	1SS132 (AVR80MKII)
CU14	DK18103310	CERAMIC 0.01µF +80% -20% (B)	DU01	HD20002000	1SS176 (AVR80)
CU15	DK18103310	CERAMIC 0.01µF +80% -20% (B)	DU02	HD20029210	1SS132 (AVR80MKII)
		_	DU02	HD20002000	1SS176 (AVR80)
		RESISTORS	DU03	HD20029210	1SS132 (AVR80MKⅡ)
RU01	GD05152160	1/6W 1.5K Ω ±5%	DU03	HD20002000	1SS176 (AVR80)
RU02	GD05152160	1/6W 1.5K Ω ±5%	DU04	HD20029210	1SS132 (AVR80MKII)
RU03	GD05222160	1/6W 2.2K Ω ±5%	DU04	HD20002000	1SS176 (AVR80)
RU04	GD05222160	1/6W 2.2K Ω ±5%	DU05	HD20002000	1SS176
RU05	GD05332160	1/6W 3.3K Ω ±5%	DU06	HD20002000	1SS176
RU07	GD05682160	1/6W 6.8K Ω ±5%	DU07	HD20002000	1SS176
RU09	GD05103160	1/6W 10K Ω ±5%	DU08	HD20002000	1SS176
RU11	GD05473160	1/6W 47K Ω ±5%	DU09	HD20002000	1SS176
RU14	GD05103160	1/6W 10K Ω ±5%	DU10	HD20002000	1SS176
RU15	GD05103160	1/6W 10K Ω ±5%	DU14	HD20029210	1SS132
RU16	GD05103160	1/6W 10K Ω ±5%	DU17	HD20029210	1SS132 IB
RU17	GD05473160	1/6W 47K Ω ±5%	DU19	HD20002000	1SS176
RU18	GD05183160	1/6W 18K Ω ±5%	DU20	HD20002000	1SS176
RU19	GD05103160	1/6W 10K Ω ±5%	DU21	HD20002000	1SS176
RU20	GD05473160	1/6W 47K Ω ±5%	DU22	HI10099320	L.E.D. GL3ED8
RU22	GD05100160	1/6W 10 Ω ±5%	DU23	HD20002000	1SS176
RU23	GD05101160	1/6W 100 Ω ±5%	DU24	HD20002000	1SS176
RU24	GD05103160	1/6W 10K Ω ±5%	DU25	HD20002000	"1SS176
RU25	GD05221160	1/6W 220 Ω ±5%	DU26	HD20002000	1SS176
RU26	GD05103160	1/6W 10K Ω ±5%	DU27	HD20002000	1SS176
RU27	GD05103160	1/6W 10KΩ ±5%	DU28	HD20002000	1SS176
RU28	GD05331160	1/6W 330 Ω ±5%	DU29	HI10062320	L.E.D. LT3D8B (RED)
RU29	GD05103160	1/6W 10K Ω ±5%	DU30	HI10095320	L.E.D. LT3K44B (GRN)
RU30	GD05103160	1/6W 10KΩ ±5%	DU31	HI10095320	L.E.D LT3K44B (GRN)
RU31	GD05473160	1/6W 47K Ω ±5% (AVR80MK II)	DU32	HI10095320	L.E.D. LT3K44B (GRN)
RU32	GD05103160	1/6W 10K Ω ±5% (AVR80MK II)	DU33	HI10095320	L.E.D. LT3K44B (GRN)
RU33	GD05473160		DU34	HI10095320	L.E.D. LT3K44B (GRN)
11000	CD00470100	1/6W 47K Ω ±5% (AVR80MK II)	DU35	HI10095320	L.E.D. LT3K44B (GRN)

Ref. No.	Part. No.	Description
DU36	HI10095320	L.E.D. LT3K44B (GRN)
DU37	HI10095320	L.E.D LT3K44B (GRN)
DU38	HI10095320	L.E.D. LT3K44B (GRN)
DU39	HI10095320	L.E.D. LT3K44B (GRN)
DU40	HI10095320	L.E.D. LT3K44B (GRN)
DU41	HI10095320	L.E.D. LT3K44B (GRN)
DU42	HI10095320	L.E.D. LT3K44B (GRN)
DU43	HI10095320	L.E.D LT3K44B (GRN)
DU44	HI10095320	L.E.D. LT3K44B (GRN)
DU45	HI10095320	L.E.D. LT3K44B (GRN)
DU48	HD20002000	1SS176
DU49	HD20002000	1SS176
DU50	HD20002000	1SS176
DU51	HD20002000	1SS176 (AVR80MKII)
DU52	HD20002000	1SS176 (AVR80MKⅡ)
		MISCELLANEOUS
JU01	YJ07011240	JACK, 31P
JU02	YP06007170	PLUG, 7P
JU03	YJ06030640	JACK, 4P
JU04	YP06020550	PLUG, 4P
JU06	YP06006930	PLUG, 3P (AVR80MKII)
SU01	SP01011280	PUSH SWITCH, TACT
SU02	SP01011280	PUSH SWITCH, TACT
SU03	SP01011280	PUSH SWITCH, TACT
SU04	SP01011280	PUSH SWITCH, TACT
SU05	SP01011280	PUSH SWITCH, TACT
SU06	SP01011280	PUSH SWITCH, TACT
SU08	SP01011280	PUSH SWITCH, TACT
SU10	SP01011280	PUSH SWITCH, TACT
SU12	SP01011280	PUSH SWITCH, TACT (AVR80)
SU13	SP01011280	PUSH SWITCH, TACT
SU14	SP01011280	PUSH SWITCH, TACT
SU15	SP01011280	PUSH SWITCH, TACT
SU16	SP01011280	PUSH SWITCH, TACT
SU17	SP01011280	PUSH SWITCH, TACT
SU18	SP01011280	PUSH SWITCH, TACT
SU19	SP01011280	PUSH SWITCH, TACT
SU21	SP01011280	PUSH SWITCH, TACT
SU24	SP01011280	PUSH SWITCH, TACT
SU25	SP01011280	PUSH SWITCH, TACT
SU26	SP01011280	PUSH SWITCH, TACT
SU27	SP01011280	PUSH SWITCH, TACT
SU28	SP01011280	PUSH SWITCH, TACT
SU29	SP01011280	PUSH SWITCH, TACT
SU31	SP01011280	PUSH SWITCH, TACT
SU32	SP01011280	PUSH SWITCH, TACT
SU33	SP01011280	PUSH SWITCH, TACT
SU34	SP01011280	PUSH SWITCH, TACT
VU01	HQ31206060	DISPLAY UNIT, FIP12DM8R
XU01	FQ08004010	CERAMIC RESONATOR
		CST8,0MHz

PU54-MASTER VOL.P.C. BOARD

		CAPACITO	ORS
CU51	DA16101110	CERAMIC	100PF ±10%
CU52	DA16101110	CERAMIC	100PF ±10%
		RESISTOR	RS
RU51	GD05104160	1/6W	100K Ω ±5%
RU52	GD05104160	1/6W	100K Ω ±5%
RU53	GD05224160	1/6W	220K Ω ±5%
RU54	GD05224160	1/6W	220K Ω ±5%
RU55	GG05010140	1/6W	1Ω ±5%
RU57	GD05103160	1/6W	10K Ω ±5% (AVR80)
RU58	GD05103160	1/6W	10K Ω ±5% (AVR80)

Ref. No.	Part. No.	Description
		TRANSISTORS
QU51	HT30001000	2SC536SP
QU52	HT30001000	2SC536SP
QU53	HT30001000	2SC536SP (AVR80)
QU54	HT30001000	2SC536SP (AVR80)
		MISCELLANEOUS
11.154	VD00000740	
JU51	YP06020740	PLUG, 4P
SU55	SR02010040	ROTARY SWITCH, MASTER VOL.

PU94-POWER SW P.C. BOARD (AVR80MK II)

		MISCELLANEOUS
JU91	YP06006930	PLUG, 3P
JU92	YP06006930	PLUG, 3P
SU91	SP02011570	PUSH SWITCH, POWER

PV04-DIRECT IN P.C. BOARD

CT04 DK18103310 CERAMIC 0.01μF +80% -20% B CT05 DK18103310 CERAMIC 0.01μF +80% -20% B CV01 EJ10601610 ELECT 10μF 16V CV02 EJ10601610 ELECT 10μF 16V CV03 EJ10601610 ELECT 10μF 16V CV04 EJ10601610 ELECT 10μF 16V CV05 EJ10601610 ELECT 10μF 16V CV06 EJ10601610 ELECT 10μF 16V CV07 DJ38104010 CERAMIC 0.1μF +80% -20% CV08 DJ38104010 CERAMIC 0.1μF +80% -20% CV10 DF15104350 FILM 0.1μF ±5% CV11 DF15104350 FILM 0.1μF ±5% CV12 DF15104350 FILM 0.1μF ±5% CV13 EJ10601610 ELECT 10μF 16V CV15 EJ10601610 ELECT 10μF 16V CV15 DK16101300 CERAMIC 100PF ±10% CV16 DK18103310 CERAMIC 100PF ±10% CV17 DK18103310 CERAMIC 0.01μF +80% -20% CV18 DK18103310 CERAMIC 0.01μF +80% -20% CV19 EJ10601610 ELECT 10μF 16V CV20 EJ10601610 ELECT 10μF 16V CV21 EJ10601610 ELECT 10μF 16V CV22 EJ10601610 ELECT 10μF 16V CV23 DK16151300 CERAMIC 150PF ±10% CV24 DK16151300 CERAMIC 150PF ±10% CV25 DK16151300 CERAMIC 150PF ±10% CV26 DK16151300 CERAMIC 150PF ±10% CV27 DK16151300 CERAMIC 150PF ±10% CV31 EJ10601610 ELECT 10μF 16V CV32 EJ10601610 ELECT 10μF 16V CV34 EJ10601610 ELECT 10μF 16V CV35 EJ10601610 ELECT 10μF 16V CV36 EJ10601610 ELECT 10μF 16V CV37 DK16151300 CERAMIC 150PF ±10% CV38 EJ10601610 ELECT 10μF 16V CV39 EJ10601610 ELECT 10μF 16V CV30 EJ10601610 ELECT 10μF 16V CV31 EJ10601610 ELECT 10μF 16	***			
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CV32 EJ10601610 ELECT 10μF 16V CV33 EJ10601610 ELECT 10μF 16V CV34 EJ10601610 ELECT 10μF 16V CV35 EJ10601610 ELECT 10μF 16V CV36 EJ10601610 ELECT 10μF 16V CV37 DA17223110 CERAMIC 0.022μF ±20% CV38 EJ10700610 ELECT 100μF 6.3V CV39 DD38104010 CERAMIC 0.1μF +80% -20% CV40 DA17223110 CERAMIC 0.022μF ±20% CV41 DD38104010 CERAMIC 0.1μF +80% -20% CV42 DD38104010 CERAMIC 0.1μF +80% -20% CV42 DD38104010 CERAMIC 0.1μF +80% -20% CV43 DK16221300 CERAMIC 220PF ±10% B CV44 DK16221300 CERAMIC 220PF ±10% B		CV31	EJ10601610	
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CV40 DA17223110 CERAMIC 0.022μF ±20% CV41 DD38104010 CERAMIC 0.1μF +80% -20% CV42 DD38104010 CERAMIC 0.1μF +80% -20% CV43 DK16221300 CERAMIC 220PF ±10% B CV44 DK16221300 CERAMIC 220PF ±10% B CV45 DK16221300 CERAMIC 220PF ±10% B				
CV41 DD38104010 CERAMIC 0.1μF +80% -20% CV42 DD38104010 CERAMIC 0.1μF +80% -20% CV43 DK16221300 CERAMIC 220PF ±10% B CV44 DK16221300 CERAMIC 220PF ±10% B CV45 DK16221300 CERAMIC 220PF ±10% B				
CV42 DD38104010 CERAMIC 0.1µF +80% -20% CV43 DK16221300 CERAMIC 220PF ±10% B CV44 DK16221300 CERAMIC 220PF ±10% B CV45 DK16221300 CERAMIC 220PF ±10% B				
CV43 DK16221300 CERAMIC 220PF ±10% B CV44 DK16221300 CERAMIC 220PF ±10% B CV45 DK16221300 CERAMIC 220PF ±10% B				·
CV44 DK16221300 CERAMIC 220PF ±10% B CV45 DK16221300 CERAMIC 220PF ±10% B				
CV45 DK16221300 CERAMIC 220PF ±10% B				
CV46 DK16221300 CEHAMIC 220PF ±10% (B)				
		CV46	DK16221300	CEHAMIC 220PF ±10% (B)

Ref. No.	Part. No.	Desci	ription	Ref. No.	Part. No.		Description
CV47	DK16221300		PF ±10% (B)	QT05	BA10007210	DIGITAL	DTA114ES
CV48	DK16221300	CERAMIC 220	PF ±10% (B)				
CV50	DK16101300		PF ±10% (B)			DIODES	
CV97	DK16101300		PF ±10% (B)	DV01	HD20002000	1SS176	
CV99	DK18103310	CERAMIC 0.01μF	+80% -20%	DV02	HD20002000	1SS176	
DT01	CD05074460	RESISTORS				MISCELL	
RT01 RT02	GD05271160	1/6W 270 Ω		JT01	YJ11000500	JACK, 8P	
RT05	GD05102160		±5%	JT02	YJ01004220	JACK, MIN	
RT07	GD05271160	1/6W 270 Ω		JT03	YJ01004230	JACK, MIN	
RT20	GD05222160	1/6W 2.2K Ω		JT04	YP06003830	PLUG, 3P	
RV01	GD05220160 GD05102160		±5%	JV01	YT02011020	TERMINA	L, 1P RCA PIN JACK (B)
RV02	GD05102160		±5%	JV01	YT02010780		L, 1P RCA PIN JACK
RV03	GD05102160	1/6W 1KΩ	±5%	JV02	YT02060540		L, 6P RCA PIN JACK
RV04	GD05102160		±5%	JV02	YT02060500		L, 6P RCA PIN JACK BI
RV05	GD05102160	1/6W 1KΩ		JV04	YP06020940	PLUG, 12	
RV06	GD05102160	1/6W 1K Ω		JV05	YP06020940	PLUG, 12F	
RV07	GD05102100	1/6W 100K Ω		JV06	YJ06030590	JACK, 24F	
RV08	GD05104160	1/6W 100K Ω		JV07 JV08	YP06020640	PLUG, 14F	
RV09	GD05104160	1/6W 100K Ω		JV09	YP06006720	PLUG, 12F	
RV10	GD05104160	1/6W 100K Ω		JV10	YL01010140	TERMINA	
RV11	GD05104160	1/6W 100K Ω		JV10	YP06020940 YL01010140	PLUG, 12F	
RV12	GD05104160	1/6W 100K Ω		LV04	FM12223010	TERMINAL	
RV13	GD05104160	1/6W 100K Ω		LV05	FM12223010	EMI FILTE	
RV14	GD05104160	1/6W 100K Ω		LV06	FM12223010	EMI FILTE	
RV15	GD05104160	1/6W 100K Ω		WV01	YB00040430		TIVE CORD, 1P
RV16	GD05104160	1/6W 100K Ω		*****	1000040400	COMMECT	TIVE CORD, IF
RV17	GD05104160	1/6W 100K Ω					
RV18	GD05104160	1/6W 100K Ω			Parto 4 1		
RV21	GD05104160	1/6W 100K Ω	±5%	V. Artinia de la Companya de la Comp	FW04-1	I.P.P.C. E	IOARD
RV22	GD05104160	1/6W 100K Ω	±5%			CAPACITO	nee .
RV23	GD05153160	1/6W 15K Ω	±5%	CW01	DK18103310		0.01μF +80% -20% B
	GD05153160	1/6W 15K Ω	±5%	CW02	DK18103310	CERAMIC	0.01µF +80% -20% B
	GD05153160	1/6W 15K Ω	±5%	CW03	DK18103310		0.01µF +80% -20% B
	GD05153160	1/6W 15K Ω		• • • • • • • • • • • • • • • • • • • •	21110100010	OLITAMIO	0.01µ1 +00/6-20/6 IB
	GD05223160	1/6W 22K Ω				MISCELLA	ANEOUS
	GD05223160	1/6W 22K Ω		JW01	YJ01004240	JACK, PHO	
	GD05473160	1/6W 47K Ω		JW02	YP06010450	PLUG, 5P	
	GD05473160	1/6W 47K Ω		WW01	YB00152110	CONNECT	IVE CORD, 1P
	GD05103160 GD05103160	1/6W 10K Ω 1/6W 10K Ω					
	GD05103160	1/6W 10KΩ 1/6W 10KΩ					
	GD05103160	1/6W 10KΩ			PY04-CON	NECT P.O	2 BOARD
	GD05562160	1/6W 5.6K Ω		***************************************			
	GD05562160	1/6W 5.6K Ω				CAPACITO	ORS
	GD05104160	1/6W 100K Ω		CS91	EJ10601610	ELECT	10μF 16V
	GD05104160	1/6W 100K Ω		CS92	EJ10601610	ELECT	10μF 16V
	GD05473160	1/6W 47K Ω		CY01	EJ47502510	ELECT	4.7μF 25V
RV42	GD05473160	1/6W 47K Ω	±5%	CY02	DD38104010	CERAMIC	0.1μF +80% -20%
RV43	GD05473160	1/6W 47K Ω	±5%	CY04	DD38104010	CERAMIC	0.1μF +80% - <u>2</u> 0%
	GD05473160	1/6W 47K Ω	±5%	CY06	DD15470300	CERAMIC	47PF ±5% (B)
	GD05473160	1/6W 47K Ω	±5%	CY07	DD15470300	CERAMIC	47PF ±5%
RV46	GD05473160	1/6W 47K Ω	±5%	CY08	DD15470300	CERAMIC	47PF ±5% BK
				CY09 CY10	DD15470300	CERAMIC	47PF ±5%
0704		INTEGRATED CIRC	CUITS	CY12	DK18103310		0.01μF +80% -20% BK
QT04	HC713200A0	IC 74LS132		CY14	DD15470300 DD38104010	CERAMIC	47PF ±5%
01/04	1104000000	Quad 2input N		CY15	DK18103310	CERAMIC CERAMIC	0.1μF +80% -20%
	HC10008090	IC NJM4558DD		0110	EIC10100010	OLIMINIO	0.01μF +80% -20%
	HC10008090	IC NJM4558DD				RESISTOR	S
	HC10008090	IC NJM4558DD		RS91	GD05473160	1/6W	47KΩ ±5%
	HC10309030		Analogue Switch		GD05473160	1/6W	47KΩ ±5%
	HC10008090 HC10310030	IC NJM4558DD IC LC78213		RY01	GD05103160	1/6W	10KΩ ±5%
	HC10008090	IC LC78213 / IC NJM4558DD	Analogue Switch			., 511	. J WH
~, v			Dual Of Alvir				
OTC4	1 1144 000000	TRANSISTORS					
	HW10006320	PHOTO UNIT	PC-817				
QT02	HW10006320	PHOTO UNIT	PC-817				

Ref. No.	Part. No.	Description	Ref. No.	Part. No.		Description
RY02	GD05103160	1/6W 10K Ω ±5%	JY04	YJ06030140	JACK, 14P	
RY03	GD05103160	1/6W 10K Ω ±5%	JY05	YJ06030100	JACK, 10P	
RY04	GD05103160	1/6W 10K Ω ±5%	JY06	YP06020700	PLUG, 30P	
RY05	GD05103160	1/6W 10K Ω ±5%	JY07	YJ06030140	JACK, 14P	
RY06	GD05103160	1/6W 10K Ω ±5%	JY08	YP06020690	PLUG, 24P	
RY07	GD05103160	1/6W · 10K Ω ±5%	JY09	YJ07011240	JACK, 31P	
RY08	GD05103160	1/6W 10K Ω ±5%	JY10	YP06006680	PLUG, 8P	
RY09	GD05103160	1/6W 10K Ω ±5%	JY11	YP06003830	PLUG, 3P	
RY10	GD05103160	1/6W 10K Ω ±5%				
RY11	GD05103160	1/6W 10K Ω ±5%				
RY12	GD05103160	1/6W 10K Ω ±5%		D104 TI	JNER P.C.	BOARD
RY13	GD05103160	1/6W 10K Ω ±5%		F 104-11	JIVEN F.C.	BUARD
RY14	GD05103160	1/6W 10K Ω ±5%			CAPACITO	NDC .
RY15	GD05103160	1/6W 10K Ω ±5%	CA01	CT12000200	TRIM.CAP.	
RY18	GD05472160	1/6W 4.7K Ω ±5%	CA02	DK18473310	CERAMIC	0.047μF +80% -20%
RY19	GD05472160	1/6W 4.7K Ω ±5%	CA03	DD15150300	CERAMIC	15PF ±5%
RY20	GD05103160	1/6W 10K Ω ±5%	CA04	DF15391550	FILM	390PF ±5%
RY21	GD05103160	1/6W 10K Ω ±5%	CA05	DD15470300	CERAMIC	47PF ±5%
RY22	GD05103160	1/6W 10K Ω ±5%	CA06	DK18103310	CERAMIC	0.01μF +80% -20%
RY23	GD05332160	1/6W 3.3K Ω ±5%	CA07	DK18103310		0.01μF +80% -20% B
RY24	GD05103160	1/6W 10K Ω ±5%	CA08	CT12000200	TRIM.CAP.	
RY25	GD05103160	1/6W 10K Ω ±5%	CA09	DD15150300	CERAMIC	15PF ±5% (B)
RY26	GD05103160	1/6W 10K Ω ±5%	CA11	DD15680300	CERAMIC	68PF ±5% IB
RY27	GD05103160	1/6W 10K Ω ±5%	CA12	DD15151300	CERAMIC	150PF ±5% (B)
RY28	GD05472160	1/6W 4.7K Ω ±5%	CA13	DK18103310		0.01μF +80% -20% B
RY29	GD05472160	1/6W 4.7K Ω ±5%	CA14	DK18103310		0.01µF +80% -20% B
RY30	GD05103160	1/6W 10K Ω ±5%	CA18	EJ47502510	ELECT	4.7µF 25V
RY31	GD05103160	1/6W 10K Ω ±5%	C201	DK18103310	CERAMIC	0.01µF +80% -20%
RY32	GD05103160	1/6W 10K Ω ±5%	C202	DK18103310	CERAMIC	0.01µF +80% -20%
RY33	GD05103160	1/6W 10K Ω ±5%	C203	DK18473310	CERAMIC	0.047µF +80% -20%
UY97	GD05102160	1/6W 1K Ω ±5% (B)	. C204	DK18473310	CERAMIC	0.047µF +80% -20%
			C205	EJ10505010	ELECT	1μF 50V
01/00	11000445000	INTEGRATED CIRCUITS	C206	EJ10601610	ELECT	10μF 16V
QY09	HC38115090	IC NJM78L15A Voltage Regulator	C207	EA10701610	ELECT	100µF 16V
	HC10370050	IC TC9173P Port Expander	C208	DK18473310	CERAMIC	0.047µF +80% -20%
	HC10250050	IC TC9174P Port Expander	C209	EJ10505010	ELECT	1μF 50V
QY12	HC754100B0	IC 74HC541	C210	DK18103310	CERAMIC	0.01μF +80% -20%
		Octal Buffer/Line Drivers	C211	EJ22505010	ELECT	2.2μF 50V
		TRANSISTORS	C212	EJ10505010	ELECT	1μF 50V
QY01	BA10001000		C213	EJ47405010	ELECT	0.47μF 50V
QY02		DIGITAL DTA114ES	C214	EA47603510	ELECT	47μF 35V
QY03	BA20002000 BA10001000	DIGITAL DTC144ES DIGITAL DTA114ES	C215	DK18473310	CERAMIC	0.047μF +80% -20%
QY04	BA20002000	DIGITAL DTA114ES DIGITAL DTC144ES	C216	EA10701610	ELECT	100μF 16V
	BA10001000	DIGITAL DTC144ES	C217	DK16332300	CERAMIC	3300PF ±10% (B)
	BA20002000	DIGITAL DTC144ES	C217	DF15822350	FILM	8200PF ±5% BK
	BA10001000	DIGITAL DTA114ES	C218	DK18103310	CERAMIC	0.01μF +80% -20%
	BA20002000	DIGITAL DTC144ES	C219	EJ10601610	ELECT	10μF 16V
	BA20002000	DIGITAL DTC144ES	C220	DK16222300	CERAMIC	2200PF ±10% (B)
	BA10001000	DIGITAL DTA114ES	C220	DK16472300	CERAMIC	4700PF ±10% BK
	BA20002000	DIGITAL DTC144ES	C222	DK16152300	CERAMIC	1500PF ±10%
Q110	D/ LOCOLCOO	DIGITAL DIGITALS	C223	DK18103310	CERAMIC	0.01μF +80% -20%
		DIODES	C224	DK18103310).01μF +80% -20% B
DY01	HD20002000	1SS176	C225	DK18103310	CERAMIC	0.01μF +80% -20%
_	HD20002000	1SS176	C226	DK18103310	CERAMIC	0.01μF +80% -20%
	HD20002000	1SS176	C227	DK16272300	CERAMIC	2700PF ±10% BK
	HD20002000	1SS176	C233	DK18103310	CERAMIC	0.01μF +80% -20%
	HD20002000	1SS176	C234	DK18103310	CERAMIC	0.01μF +80% -20%
	HD20002000	1SS176	C301	DF15333310	FILM	0.033μF ±5% 📵
	HD20002000	1SS176	C301	DF15473310	FILM	0.047μF ±5% BK
	HD20002000	1SS176	C302	DF15333310	FILM	0.033μF ±5% (B)
	HD20002710	1D3 1A/200V	C302	DF15473310	FILM	0.047μF ±5% BK
17119	HD20002710	1SS176	C303	EJ10601610	ELECT	10μF 16V
		100110	C304	EJ10601610	ELECT	10μF 16V
DY10		1SS176		F 147500540		4 = = 0=14
DY10 DY11	HD20002000	1SS176 ZENER 3.6V	C305	EJ47502510	ELECT	4.7μF 25V 📵
DY10 DY11		1SS176 ZENER, 3.6V	C306	EJ47502510	ELECT	4.7μF 25V B
DY10 DY11	HD20002000	ZENER, 3.6V	C306 C307	EJ47502510 EJ10601610	ELECT ELECT	4.7μF 25V IB 10μF 16V IB
DY10 DY11 DY14	HD20002000 HD30361000	ZENER, 3.6V MISCELLANEOUS	C306 C307 C308	EJ47502510 EJ10601610 EJ10601610	ELECT ELECT ELECT	4.7μF 25V IB 10μF 16V IB 10μF 16V IB
DY10 DY11 DY14 JY01	HD20002000	ZENER, 3.6V	C306 C307	EJ47502510 EJ10601610	ELECT ELECT	4.7μF 25V IB 10μF 16V IB

Ref. No.	Part. No.	<u>Description</u>	Ref. No.	Part. No.	Description
C313	EJ10601610	ELECT 10μF 16V (B)	R306	GD05153160	1/6W 15K Ω ±5% 🔞
C314	EA47603510	ELECT 47μF 35V IB	R307	GD05221160	1/6W 220 Ω ±5%
C315	DK16151300	CERAMIC 150PF ±10% IB	R308	GD05221160	1/6W 220 Ω ±5%
C316	DK16151300	CERAMIC 150PF ±10% IB	R309	GD05473160	1/6W 47K Ω ±5%
C317	DK16101300	CERAMIC 100PF ±10% IB	R310	GD05473160	1/6W 47K Ω ±5%
C318	DK16101300	CERAMIC 100PF ±10% IB	R311	GD05473160	1/6W 47KΩ ±5% IB
C501	DD15470300	CERAMIC 47PF ±5%	R312	GD05473160	1/6W 47K Ω ±5% IB
C502	DD15470300	CERAMIC 47PF ±5%	R313	GG05221140	1/4W 220 Ω ±5% IB
C503	EA10700610	ELECT 100µF 6.3V	R501	GD05102160	1/6W 1KΩ ±5%
C504	DK18103310	CERAMIC 0.01µF +80% -20%	R502	GD05332160	1/6W 3.3K Ω ±5%
C505	EJ10505010	ELECT 1µF 50V	R503	GD05102160	1/6W 1K Ω ±5%
C506	EJ10405010	ELECT 0.1µF 50V	R504	GD05103160	1/6W 10K Ω ±5%
C507	DK18103310	CERAMIC 0.01µF +80% -20%	R506	GD05102160	1/6W 1K Ω ±5%
C508	EA10701610	ELECT 100μF 16V	R507	GD05332160	1/6W 3.3K Ω ±5%
C509	DK16101300	CERAMIC 100PF ±10%	R508	GD05473160	1/6W 47K Ω ±5%
C510	DK16101300	CERAMIC 100PF ±10%	R510	GD05102160	1/6W 1K Ω ±5%
C511	DK18103310	CERAMIC 0.01μF +80% -20%	R511	GD05102160	1/6W 1K Ω ±5%
C901	EA10700610	ELECT 100μF 6.3V (B)	R512	GA05271010	1W 270 Ω ±5%
C902	EJ10601610	ELECT 10μF 16V B	R513	GD05103160	1/6W 10K Ω ±5%
C903	DK16332300	CERAMIC 3300PF ±10% (B)	R514	GG05470160	1/6W 47 Ω ±5%
C904	DK16332300	CERAMIC 3300PF ±10% (B)	R515	GD05683160	1/6W 68K Ω ±5%
C905	DK18103310	CERAMIC 0.01µF +80% -20% IB	R516	GD05473160	1/6W 47K Ω ±5%
C906	DK18103310	CERAMIC 0.01µF +80% -20% (B)	R517	GD05473160	1/6W 47K Ω ±5%
C907	EJ10601610	ELECT 10μF 16V IB	R901	GD05333160	1/6W 33K Ω ±5% B
C908	EJ10601610	ELECT 10μF 16V IB	R902	GD05103160	1/6W 10K Ω ±5% IB
C909	EJ47502510	ELECT 4.7μF 25V (B)	R903	GD05223160	1/6W 22K Ω ±5% B
C910	EJ10601610	ELECT 10μF 16V IB	R904	GD05102160	1/6W 1K Ω ±5% B
C911	DK18223310	CERAMIC0.022μF +80% -20% B	R905	GD05682160	1/6W 6.8K Ω ±5% B
C912	DF15333310	FILM 0.033μF ±5% (B)	R907	GD05102160	1/6W 1K Ω ±5% IB
C913	DF15333310	FILM 0.033μF ±5% (B)	R908	GD05332160	1/6W 3.3K Ω ±5% IB
C914	DF15682350	FILM 0.0068µF ±5% B	R909	GD05103160	1/6W 10K Ω ±5% IB
C915	DK18103310	CERAMIC 0.01µF +80% -20% IB	R910	GA05221010	1W 220 Ω ±5% IB
C916	DD15470300	CERAMIC 47PF ±5% IB	R911	GD05103160	1/6W 10K Ω ±5% IB
		RESISTORS			CONTROLS
RA01	GD05103160	1/6W 10K Ω ±5%	RA11	RA02230780	TRIM-POTS 22KΩ
RA02	GD05104160	1/6W 100K Ω ±5%	R211	RA02230780	TRIM-POTS 22KΩ (B)
RA03	GD05103160	1/6W 10KΩ ±5% (B)	R212	RA04720780	TRIM-POTS 4.7K Ω (B)
RA04	GD05154160	1/6W 150K Ω ±5% IB	R218	RA04720780	TRIM-POTS 4.7K Ω(B)
RA06	GD05104160	1/6W 100K Ω ±5% IB	R906	RA04720780	TRIM-POTS 4.7K Ω (B)
RA07	GD05103160	1/6W 10K Ω ±5% B			
	GD05154160	1/6W 150K Ω ±5% (B)			INTEGRATED CIRCUITS
RA09	GD05222160	1/6W 2.2K Ω ±5% IB	Q201	HC10342030	IC LA1836 FM/AM IF, MPX IC
R102	GD05103160	1/6W 10K Ω ±5% B	Q301	HC10008090	IC NJM4558DD IB Dual OP AMP
	GD05103160	1/6W 10K Ω ±5% IB	Q501	HC10221030	IC LC7218
	GD05101160	1/6W 100 Ω ±5% BK			PLL Frequency Synthesizer
	GD05471160	1/6W 470 Ω ±5% (B)	Q901	HC10315030	IC LA2232 IB
	GD05391160	1/6W 390 Ω ±5% BK			RDS Demodulater
	GD05222160	1/6W 2.2K Ω ±5%	Q902	HC10333030	IC LC7073 IB
_	GD05471160	1/6W 470 Ω ±5%			RDS Error Corrector
	GD05331160	1/6W 330 Ω ±5%			TRANSISTORS
	GD05153160	1/6W 15 Ω ±5%	QA01	HT30001000	2SC536SP (B)
	GG05181140	1/4W 180 Ω ±5%	QA02	HT30001000	2SC536SP IB
	GD05392160	1/6W 3.9K Ω ±5%		HT421442A0	2SD2144S (U, V) IB
	GD05104160	1/6W 100K Ω ±5%	QA04	BA10002000	DIGITAL DTA144ES IB
	GD05332160	1/6W 3.3K Ω ±5%	QA05	BA10002000	DIGITAL DTA144ES IB
	GD05220160	1/6W 22 Ω ±5%		HT318091P0	2SC1809SP
	GD05473160	1/6W 47KΩ ±5%	_	BA10007210	DIGITAL DTA114ES
	GD05154160	1/6W 150K Ω ±5% IB		BA20002000	DIGITAL DTC144ES
_	GD05333160	1/04A 201/27 TD/9		HT30001000	2SC536SP
	GD05103160	1/OAA 101/75 TO\0		HT30001000	2SC536SP IB
	GG05181140	1/4W 180 Ω ±5% (B)			
	GG05221140	1/4W 220 Ω ±5% BK			F.E.T.
	GD05334160	1/6W 330K Ω ±5%	Q502	HF200300B0	2SK30ATM
	GD05104160	1/6W 100K Ω ±5% (B)			
	GD05104160	1/6W 100K Ω ±5% (B)			DIODES
	GD05103160	1/CW 101/ 0 150/ 45		HD40009030	VARICAP SVC342-L
	GD05103160 GD05153160	AIOM AELCO LEOC		HD20017210	1SS135 B
11000	GD03133100			HD40009030	VARICAP SVC342-L IB
			DA04	HD20017210	1SS135 (B)

Ref. No. Part. No.		Description	Ref. No.	Part. No.	Description		
DA05	HD20002000	1SS176	CR34	DK98104200	CERAMIC	0.1μF +80% -20%	
DA06	HD20002000	1SS176	CR35	DK98104200	CERAMIC	0.1μF +80% -20%	
D201	HD20002000	1SS176	CR36	DK98104200	CERAMIC	0.1μF +80% -20%	
D202	HD30681000	ZENER 6.8V	CR37	EY10700620	ELECT	100μF 6.3V	
D501	HD30511000	ZENER 5.1V	CR38	DK96103200	CERAMIC	0.01μF ±10%	
D901	HD30511000	ZENER 5.1V (B)	CR39	EY10601620	ELECT	10μF 16V	
			CR40	EY10601620	ELECT	10μF 16V	
		COILS	CR41	DD95101300	CERAMIC	100PF ±5%	
LA01	LA10295170	ANT, MW 280µH	CR42	DD95101300	CERAMIC	100PF ±5%	
LA02	LO70013010	OSC, MW	CR43	DK98104200	CERAMIC	0.1μF +80% -20%	
LA03	LA10295160	ANT, LW (B)	CR44	DK98104200	CERAMIC	0.1µF +80% -20%	
LA04	LO70013020	OSC, LW IB	CR45	DD95331300	CERAMIC	330PF ±5%	
LA05	LC23960710	CHOKE, 39mH	CR46	DK96104200	CERAMIC	0.1μF ±10%	
L201	LI70376010	I.F.T., FM DET	CR47	DD95151300	CERAMIC	150PF ±5%	
L301	LS10293020	M.P.X., 19.38KHz	CR48	DK96473200	CERAMIC	0.047µF ±10%	
L302	LS10293020	M.P.X., 19.38KHz	CR49	DK98104200	CERAMIC	0.1μF +80% -20%	
L501	LC14733800	CHOKE, 47µH	CR50	DK98104200	CERAMIC	0.1µF +80% -20%	
L502	LC14733800	CHOKE, 47μH	CR61	DK98104200	CERAMIC	0.1µF +80% -20%	
L503	LC14733800	CHOKE, 47μH	CR62	EY10700620	ELECT	100μF 6.3V	
L504	LC14733800	CHOKE, 47µH	CR63	EY10700620	ELECT	100µF 6.3V	
			CR64	DK98104200	CERAMIC	0.1µF +80% -20%	
		MISCELLANEOUS	CR65	DK98104200	CERAMIC	0.1µF +80% -20%	
A101	AV01203020	VHF TUNER, FE415-G11 (B)	CR66	DK98104200	CERAMIC	0.1µF +80% -20%	
A101	AV01202220	VHF TUNER, FE337-A05 BK	CR67	EY10700620	ELECT	100μF 6.3V	
F201	FF11070620	CERAMIC FILTER IB	CR68	DK96103200	CERAMIC	0.01μF ±10%	
F201	FF11070610	CERAMIC FILTER BK	CR69	EY10601620	ELECT	10μF 16V	
F202	FF11070620	CERAMIC FILTER	CR70	EY10601620	ELECT	10μF 16V	
J101	YT03030020	TERMINAL, ANT	CR71	DD95101300	CERAMIC	100PF ±5%	
J101	YT03030080	TERMINAL, ANT BK	CR72	DD95101300	CERAMIC	100PF ±5%	
J102	YL01010140	TERMINAL, GND	CR73	DK98104200	CERAMIC	0.1μF +80% -20%	
J301	YP06020640	PLUG, 14P	CR74	DK98104200	CERAMIC	0.1μF +80% -20%	
LA06	FF10045330	CERAMIC FILTER	CR75	DD95331300	CERAMIC	330PF ±5%	
X201	FQ04563040	CERAMIC VIB.	CR76	DD95331300	CERAMIC	330PF ±5%	
X501	JX07001260	CRYSTAL, 7.2MHz	CR77	DD95151300	CERAMIC	150PF ±5%	
X901	FQ04563040	CERAMIC VIB. CSB456F33	CR78	DD95151300	CERAMIC	150PF ±5%	
X902	FQ04004030	CERAMIC VIB. 4.00MHz	CR79	DK98104200	CERAMIC	0.1μF +80% -20%	
			CR80	DK98104200	CERAMIC	0.1μF +80% -20%	
			C601	EY10601620	ELECT	10μF 16V	
P6	04-THX PRO	LOGIC DSP P.C. BOARD	C602 C603	EY10601620	ELECT	10μF 16V	
			C604	DD95151300	CERAMIC	150PF ±5%	
		CAPACITORS, CHIP	C605	DD95151300	CERAMIC	150PF ±5%	
CR01	DK98104200	CERAMIC 0.1µF +80% -20%	C606	DD95151300 DD95151300	CERAMIC CERAMIC	150PF ±5% 150PF ±5%	
CR02	EY10700620	ELECT 100µF 6.3V	C607	DK98104200	CERAMIC	0.1μF +80% -20%	
CR03	EY10700620	ELECT 100µF 6.3V	C608	DK98104200	CERAMIC	0.1μF +80% -20%	
CR04	DK98104200	CERAMIC 0.1µF +80% -20%	C609	DK98104200	CERAMIC	0.1μF +80% -20%	
CR05	DK98104200	CERAMIC 0.1μF +80% -20%	C610	DK98104200	CERAMIC	0.1μF +80% -20%	
CR06 CR07	DK98104200 EY10700620	CERAMIC 0.1μF +80% -20% ELECT 100μF 6.3V	C611	DK98104200	CERAMIC	0.1μF +80% -20%	
CR08	DK96103200	CERAMIC 0.01µF ±10%	C612	DK98104200	CERAMIC	0.1μF +80% -20%	
CR09	EY10601620	ELECT 10µF 16V	C617	DK98104200	CERAMIC	0.1μF +80% -20%	
CR10	EY10601620	ELECT 10µF 16V	C618	DK98104200	CERAMIC	0.1μF +80% -20%	
CR11	DD95101300	CERAMIC 100PF ±5%	C619	DD95471370	CERAMIC	470PF ±5%	
CR12	DD95101300	CERAMIC 100PF ±5%	C620	DD95471370	CERAMIC		
CR13	DK98104200	CERAMIC 0.1µF +80% -20%	C621	EY10601620	ELECT	10μF 16V	
CR14	DK98104200	CERAMIC 0.1µF +80% -20%	C622	EY10601620	ELECT	10μF 16V	
CR15	DD95331300	CERAMIC 330PF ±5%	C623	DK98104200	CERAMIC	0.1µF +80% -20%	
CR16	DD95331300	CERAMIC 330PF ±5%	C624	EY10700620	ELECT	100μF 6.3V	
CR17	DD95151300	CERAMIC 150PF ±5%	C625	EY10700620	ELECT	100μF 6.3V	
CR18	DD95151300	CERAMIC 150PF ±5%	C626	DK98104200	CERAMIC	0.1μF +80% -20%	
CR19	DK98104200	CERAMIC 0.1μF +80% -20%	C627	DK98104200	CERAMIC	0.1μF +80% -20%	
CR20	DK98104200	CERAMIC 0.1µF +80% -20%	C628	EY10700620	ELECT	100μF 6.3V	
CR31	DK98104200	CERAMIC 0.1μF +80% -20%	C629	DK98104200	CERAMIC	0.1µF +80% -20%	
CR32	EY10700620	ELECT 100μF 6.3V	C630	EY10700620	ELECT	100μF 6.3V	
CR33	EY10700620	ELECT 100μF 6.3V	C631	DK98104200	CERAMIC	0.1μF +80% -20%	
		,	C635	DK96103200	CERAMIC	0.01μF ±10%	
			C636	DK96103200	CERAMIC	$0.01 \mu F \pm 10\%$	
			C637	DK96103200	CERAMIC	0.01μF ±10%	
			C638	DK96103200	CERAMIC	0.01μF ±10%	

C651

DK98104200

CERAMIC

0.1μF +80% -20%

<u>Ref. No</u> .	Part. No.	Descript	tion	Ref. No.	Part. No.		Description	
C652	EY10700620	ELECT 100µF	6.3V	RR77	NN05000610	1/16W	0 Ω ±5%	
C653	DK98104200		+80% -20%	RR81	NN05000610	1/16W		
C654	EY10700620	•	6.3V	RR82	NN05000610	1/16W		
C657	DK98104200		+80% -20%	RR85	NN05000610	1/16W		
C658	EY10700620		6.3V	R601				
C659	DK98104200	•	+80% -20%		NN05102610	1/16W		
C660	EY10700620	•		R602	NN05102610	1/16W		
C661		•	6.3V	R603	NN05473610	1/16W		
C662	DK98104200	· ·	+80% -20%	R604	NN05473610	1/16W		
	EY10700620	•	6.3V	R605	NN05103610	1/16W		
C663	DK98104200		+80% -20%	R606	NN05103610	1/16W		
C664	EY10700620		6.3V	R607	NN05103610	1/16W		
C665	DK98104200	•	+80% -20%	R608	NN05103610	1/16W	10K Ω ±5%	
C666	EY10700620	•	6.3V	R609	NN05103610	1/16W	10K Ω ±5%	
C667	DK98104200		+80% -20%	R610	NN05103610	1/16W	10K Ω ±5%	
C668	EY10700620		6.3V	R611	NN05103610	1/16W	10K Ω ±5%	
C671	EY10601620		16V	R612	NN05103610	1/16W		
C672	DK98104200	CERAMIC 0.1μF	+80% -20%	R613	NN05103610	1/16W		
C673	EY10601620	ELECT 10μF	16V	R614	NN05103610	1/16W		
C676	DK98104200	CERAMIC 0.1µF	+80% -20%	R615	NN05221610	1/16W		
C677	DK98104200	CERAMIC 0.1μF	+80% -20%	R616	NN05221610	1/16W		
C678	DD95101300	CERAMIC 100PF		R617	NN05103610	1/16W		
C679	DD95101300	CERAMIC 100PF		R618	NN05103610	1/16W		
C681	DK96103200		±10%	R619				
C682	EY10601620	· ·			NN05221610	1/16W		
C683		•	16V	R620	NN05221610	1/16W		
C684	DK96102300			R621	NN05103610	1/16W		
	DK98104200	•	+80% -20%	R622	NN05000610	1/16W	0 Ω ±5%	
C685	DK98104200		+80% -20%	R661	NN05222610		2.2K Ω ±5%	
C686	EY10700620		6.3V	R662	NN05222610		2.2K Ω ±5%	
C687	DK96103200	•	±10%	R666	NN05222610	1/16W	2.2K Ω ±5%	
C688	DK98104200		+80% -20%	R667	NN05222610	1/16W	2.2K Ω ±5%	
C689	DD95120300	CERAMIC 12PF	±5%	R673	NN05000610	1/16W	0 Ω ±5%	
C690	DD95120300	CERAMIC 12PF	±5%	R674	NN05000610	1/16W	0 Ω ±5%	
C691	DK98104200	CERAMIC 0.1μF	+80% -20%	R681	NN05473610	1/16W	47K Ω ±5%	
C692	DK98104200	CERAMIC 0.1μF	+80% -20%	R682	NN05222610		2.2K Ω ±5%	
C693	DK98104200	CERAMIC 0.1μF	+80% -20%	R683	NN05750610	1/16W	75 Ω ±5%	
C694	EY10700620	ELECT 100μF		R684	NN05563610	1/16W		
		'		R685	NN05333610	1/16W		
		RESISTORS, CHIP		R686	NN05123610	1/16W		
C641	NN05000610	1/16W 0Ω ±	5%	R687	NN05562610		5.6K Ω ±5%	
C642	NN05000610	1/16W 0 Ω ±		R688	NN05562610		5.6K Ω ±5%	
C656	NN05000610	1/16W 0 Ω ±		R689	NN05121610		120 Ω ±5%	
RR01	NN05682610	1/16W 6.8K Ω ±		R690	NN05224610			
RR02	NN05682610	1/16W 6.8K Ω ±					220K Ω ±5%	
RR03	NN05103610	1/16W 0.8KΩ ±		R691	NN05471610	1/16W		
RR04				R692	NN05123610	1/16W	12KΩ ±5%	
	NN05103610	1/16W 10KΩ ±		R693	NN05750610	1/16W	75 Ω ±5%	
RR05	NN05223610	1/16W 22KΩ ±		R694	NN05000610	1/16W	0Ω ±5%	
RR06	NN05223610	1/16W 22KΩ ±		R697	NN05104610		100K Ω ±5%	
RR07	NN05223610	1/16W 22KΩ ±		L606	NN05000610	1/16W	0 Ω ±5%	
RR08	NN05223610	1/16W 22KΩ ±		L607	RI05000180	1/8W	0Ω ±5%	
RR09	NN05223610	1/16W 22KΩ ±						
RR10	NN05223610	1/16W 22KΩ ±	5%			INTEGRA	TED CIRCUITS	
RR21	NN05682610	1/16W 6.8K Ω ±	5%	Q601	HC10359030	IC LC83	016JE	
RR22	NN05682610	1/16W 6.8K Ω ±	5%			Digita	I Signal Processor	
RR23	NN05103610	1/16W 10K Ω ±5	5%	Q602	HC10360030	IC LC83	017JE	
RR24	NN05103610	1/16W 10K Ω ±5	5%			Digita	I Signal Processor	
RR25	NN05223610	1/16W 22K Ω ±5		Q603	HC10338030		464PM-80 64kx4bit Dra	m
RR26	NN05223610	1/16W 22KΩ ±5		Q604	HC10338030		464PM-80 64kx4bit Drai	
RR27	NN05223610	1/16W 22KΩ ±5		Q605	HC10015480		20 (DAC)	111
RR28	NN05273610	1/16W 27KΩ ±5		Q005	11010015400			
RR29	NN05223610	1/16W 22KΩ ±5		Q606	UC10015400		Analogue Converter	
RR30				Q000	HC10015480		20 (DAC)	
RR41	NN05273610	1/16W 27KΩ ±5		0007	11040045400		Analogue Converter	
	NN05473610	1/16W 47KΩ ±5		Q607	HC10015480		20 (DAC)	
RR42	NN05473610	1/16W 47KΩ ±5				Digita	l Analogue Converter	
RR43	NN05103610	1/16W 10KΩ ±5		Q608	HC10016480		89 (ADC)	
RR44	NN05103610	1/16W 10KΩ ±5				Analo	gue Digital Converter	
RR45	NN05103610	1/16W 10KΩ ±5	%	Q609	HC10172090	IC NJM2	115M Dual OP AMI	>
RR46	NN05103610	1/16W 10K Ω ±5	%	Q610	HC10172090		115M Dual OP AME	
RR47	NN05223610	1/16W 22K Ω ±5	%	Q611	HC10172090		2115M Dual OP AMI	
RR48	NN05223610	1/16W 22K Ω ±5		Q612	HC10172090		2115M Dual OP AME	
RR49	NN05223610	1/16W 22K Ω ±5		Q613	HC10011090		558M (Y) Dual OP AMI	
RR50	NN05223610	1/16W 22K Ω ±5		Q614	HC10011090		558M (Y) Dual OP AMI	
				Q615	HC10011090		558M (Y) Dual OP AM	
						101914	July Dual Of Alvi	•

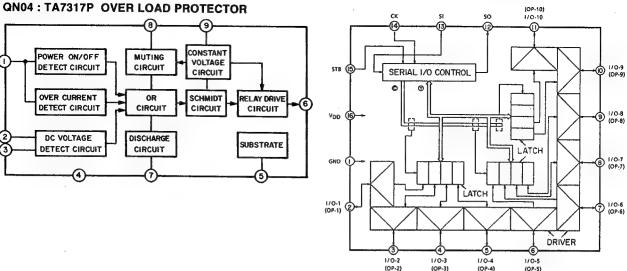
Ref. No.	Part. No.	Description	Ref. No.	Part. No.	Description
Q616	HC10011090	IC NJM4558M (Y) Dual OP AMP	C752	DK16681300	CERAMIC 680PF ±10% IB
Q617	HC10011090	IC NJM4558M (Y) Dual OP AMP	C752	DD15680300	CERAMIC 68PF ±5% BK
Q618	HC10011090	IC NJM4558M (Y) Dual OP AMP	C753	DK16331300	CERAMIC 330PF ±10%
Q619	HC10339030	IC LC8903Q	C754	EA47700610	ELECT 470μF 6.3V
0000	11070010070	Digital Audio Interface	C756	OA10610020	ELECT 10μF 100V
Q620	HC700400Z0	IC 74HCU04 Hex Inverters	C757	DK16221300	CERAMIC 220PF ±10%
Q621	HC700800Z0	IC 74HC08	C758	DD15470300	CERAMIC 47PF ±5%
Q622	HC99005090	Quad 2input AND gate IC NJM79L05UA	C759 C760	EA10510010	ELECT 1µF 100V
GULL	11033003030	Voltage Regulator	C761	OA47706320 OA47706320	ELECT 470μF 63V ELECT 470μF 63V
		Totago Flogulator	C762	EJ10405010	ELECT 0.1µF 50V
		TRANSISTOR	C763	EJ10405010	ELECT 0.1μF 50V
Q623	BA20004210	DIGITAL DTC144EK	▲ C801	DK18103560	CERAMIC 0.01μF +80% -20%
		•	▲ C802	OB27906310	ELECT 27000μF 63V
		MISCELLANEOUS	▲ C803	OB27906310	ELECT 27000μF 63V
J601	YJ06031000	JACK, 12P	▲ C804	DK18103560	CERAMIC 0.01µF +80% -20%
J602	YJ06031000	JACK, 12P	▲ C805	EB10906380	ELECT 10000μF 63V
J603	YJ06031000	JACK, 12P	▲ C806	EB10906380	ELECT 10000μF 63V
L601	FM32102010	EMI FILTER	C807	DK18103310	CERAMIC 0.01µF +80% -20%
L602	FN31000010	FEI FILTER	C808	DK18103310	CERAMIC 0.01μF +80% -20%
L603 L604	FN31000010 FN31000010	FEI FILTER EMI FILTER	C809	EA33802510	ELECT 3300µF 25V
L605	FN31000010	EMI FILTER	C810 C811	EA33802510	ELECT 3300µF 25V
X681	FZ02255030	CERAMIC RESONATOR	C812	DK18103310	CERAMIC 0.01µF +80% -20%
7,001	7 20220000	22.5792MHz	C812	DK18103310 EA10701610	CERAMIC 0.01μF +80% -20% ELECT 100μF 16V
		ZEIO/ OZIMI IZ	C814	EA10701610	ELECT 100µF 16V
	D704 MAI	NAMP P.C. BOARD	C815	DK18103310	CERAMIC 0.01µF +80% -20%
	FIVERINAL	NAMIF F.C. BUAND	C816	DK18103310	CERAMIC 0.01µF +80% -20%
		CAPACITORS	C817	EA22801610	ELECT 2200μF 16V
CN03	EA22601610	ELECT 22μF 16V	C818	EA22801610	ELECT 2200μF 16V
CN04	EJ33505010	ELECT 3.3μF 50V B	C820	DA17103110	CERAMIC 0.01μF ±20%
CN04	EJ22505010	ELECT 2.2µF 50V BK	C821	EA10701610	ELECT 100μF 16V
CN05	DD38104010	CERAMIC 0.1µF +80% -20%	C822	EA10701610	ELECT 100μF 16V
CN06	EJ47601610	ELECT 47μF 16V	C823	EA10701610	ELECT 100μF 16V
CN07	EJ47601610	ELECT 47μF 16V	C824	DK18103310	CERAMIC 0.01µF +80% -20%
CN08	EJ10505010	ELECT 1µF 50V	C825 C826	EA10701610	ELECT 100µF 16V
CN09	EJ10701010	ELECT 100µF 10V	C827	EA10701610 EA10701610	ELECT 100µF 16V ELECT 100µF 16V
CN10 CN12	DD38104010 DD38104010	CERAMIC 0.1μF +80% -20% CERAMIC 0.1μF +80% -20%	C828	EA10701610	ELECT 100µF 16V
CN13	DK16101300	CERAMIC 100PF ±10% IB	C829	EA10701610	ELECT 100µF 16V
CN14	DK16101300	CERAMIC 100PF ±10% IB			
CN15	DK18103310	CERAMIC 0.01µF +80% -20% IB			RESISTORS
CN16	DK18103310	CERAMIC 0.01µF +80% -20% IB	▲RN01	GG05122160	1/6W 1.2K Ω ±5%
C701	OA47601020	ELECT 47μF 10V	▲RN02	GG05122160	1/6W 1.2K Ω ±5%
C702	OA47601020	ELECT 47μF 10V	RN03	GD05103160	1/6W 10K Ω ±5%
C703	DK16681300	CERAMIC 680PF ±10% IB	RN04	GD05103160	1/6W 10K Ω ±5%
C703	DD15680300	CERAMIC 68PF ±5% BK	RN05 RN06	GD05102160 GD05102160	1/6W 1K Ω ±5% 1/6W 1K Ω ±5%
C704 C704	DK16681300	CERAMIC 680PF ±10% (B)	RN07	GD05223160	1/6W 1K Ω ±5% 1/6W 22K Ω ±5%
C704	DD15680300 DK16331300	CERAMIC 68PF ±5% BK CERAMIC 330PF ±10%	RN08	GD05223160	1/6W 22KΩ ±5%
C706	DK16331300	CERAMIC 330PF ±10% CERAMIC 330PF ±10%	RN10	GD05682160	1/6W 6.8K Ω ±5%
C707	EA47700610	ELECT 470µF 6.3V	RN11	GD05473160	1/6W 47K Ω ±5%
C708	EA47700610	ELECT 470µF 6.3V	RN12	GD05472160	1/6W 4.7K Ω ±5%
C709	EA10510010	ELECT 1μF 100V	RN13	GD05473160	1/6W 47K Ω ±5%
C710	EA10510010	ELECT 1μF 100V	RN14	GD05473160	1/6W 47K Ω ±5%
C711	OA10610020	ELECT 10μF 100V	RN15	GD05104160	1/6W 100K Ω ±5%
C712	OA10610020	ELECT 10μF 100V	RN16	GD05822160	1/6W 8.2K Ω ±5%
C713	DK16221300	CERAMIC 220PF ±10%	RN20	GG05222140	1/6W 2.2K Ω ±5%
C714	DK16221300	CERAMIC 220PF ±10%	RN21	GD05473160	1/6W 47K Ω ±5%
C715	DD15470300	CERAMIC 47PF ±5%	RN22 RN23	GD05333160	1/6W 33K Ω ±5%
C716	DD15470300	CERAMIC 47PF ±5%	RN24	GD05683160 GD05683160	1/6W 68K Ω ±5% 1/6W 68K Ω ±5%
C719 C720	OA47706320	ELECT 470μF 63V	RN25	GD05683160	1/6W 68K Ω ±5%
C720 C721	OA47706320 OA47706320	ELECT 470μF 63V ELECT 470μF 63V	RN26	GD05683160	1/6W 68K Ω ±5%
C721	OA47706320 OA47706320	ELECT 470μF 63V ELECT 470μF 63V	▲ RN27	GA05561010	1W 560 Ω ±5%
C723	OA10405020	ELECT 470μF 65V ELECT 0.1μF 50V	▲ RN28	GA05561010	1W 560 Ω ±5%
C724	OA10405020	ELECT 0.1µF 50V	RN30	GD05103160	1/6W 10K Ω ±5%
C725	OA10405020	ELECT 0.1μF 50V	RN31	GD05103160	1/6W 10K Ω ±5%
C726	OA10405020	ELECT 0.1µF 50V	RN32	GD05223160	1/6W 22K Ω ±5%
C751	OA47601020	ELECT 47μF 10V	RN33	GD05103160	1/6W 10K Ω ±5%

Ref. No.	Part. No.	Description		Ref. No.	Part. No.		<u>Description</u>
RN35	GD05100160	1/6W 10 Ω ±5%		▲ R754	GG05181140	1/4W	180 Ω ±5%
RN36	GG05222160	1/6W 2.2K Ω ±5%		▲ R755	GG05100140	1/4W	10 Ω ±5%
RN41	GD05100160	1/6W 10 Ω ±5%		▲ R756	GG05100140	1/4W	10 Ω ±5%
RN42	GD05100160	1/6W 10 Ω ±5%		▲ R757	GG05100140	1/4W	10 Ω ±5%
▲ RN43	GG05101160	1/6W 100 Ω ±5%		▲ R758	GG05100140	1/4W	10 Ω ±5%
▲ RN44	GG05101160	1/6W 100 Ω ±5%		▲ R759	BZ10182020		5W x 2 ARRAY
▲RN45	GG05101160	1/6W 100 Ω ±5%		▲ R760	BZ10182020	0.18 Ω	5W x 2 ARRAY
▲RN46	GG05101160	1/6W 100 Ω ±5%		A R761	GG05100160	1/6W	10 Ω ±5%
▲ RN51 RN52	GG05122160	1/6W 1.2K Ω ±5%		▲ R762	GG05100160	1/6W	10 Ω ±5%
RN53	GD05103160 GD05102160	1/6W 10K Ω ±5% 1/6W 1K Ω ±5%		▲ R763 ▲ R764	GA05100010	1W	10 Ω ±5%
RN54	GD05102100 GD05223160	1/6W 22KΩ ±5%		R765	GA05100010	1W	10 Ω ±5%
RN55	GD05223160	1/6W 68K Ω ±5%		R766	GD05333160 GD05102160	1/6W 1/6W	33KΩ ±5% 1KΩ ±5% (B)
RN56	GD05100160	1/6W 10 Ω ±5%		R766	GD05331160	1/6W	330 Ω ±5% BK
▲RN57	GG05101160	1/6W 100 Ω ±5%		R767	GD05221160	1/6W	220 Ω ±5%
▲ RN58	GG05101160	1/6W 100 Ω ±5%		R768	GD05152160	1/6W	1.5K Ω ±5%
RN61	GD05472160	1/6W 4.7K Ω ±5%		R769	GD05561160	1/6W	560 Ω ±5%
RN62	GD05472160	1/6W 4.7K Ω ±5%		R770	GD05151160	1/6W	150 Ω ±5%
R701	GD05333160	1/6W 33K Ω ±5%		R771	GD05152160	1/6W	1.5K Ω ±5%
R702	GD05333160	1/6W 33K Ω ±5%	_	R772	GD05271160	1/6W	270 Ω ±5%
R703	GD05102160	1/6W 1K Ω ±5%	B	R773	GD05224160	1/6W	220K Ω ±5%
R703	GD05331160	1/6W 330 Ω ±5%	(BK)	R774	GD05473160	1/6W	47K Ω ±5%
R704 R704	GD05102160 GD05331160	1/6W 1K Ω ±5%	B	R775	GD05561160	1/6W	560 Ω ±5%
R704	GD05331160 GD05221160	1/6W 330 Ω ±5% 1/6W 220 Ω ±5%	BK	▲ R776 ▲ R777	GG05561160	1/6W	560 Ω ±5%
R706	GD05221160	1/6W 220 Ω ±5%		R778	GG05561160 GD05122160	1/6W 1/6W	560 Ω ±5% 1.2K Ω ±5%
R707	GD05152160	1/6W 1.5K Ω ±5%		▲ R779	GG05561160	1/6W	560 Ω ±5%
R708	GD05152160	1/6W 1.5K Ω ±5%		▲R780	GG05561160	1/6W	560 Ω ±5%
R709	GD05561160	1/6W 560 Ω ±5%		R781	GD05104160		100K Ω ±5%
R710	GD05561160	1/6W 560 Ω ±5%		▲R783	GG05560160	1/6W	56 Ω ±5%
R711	GD05151160	1/6W 150 Ω ±5%		▲ R784	GG05560160	1/6W	56 Ω ±5%
R712	GD05151160	1/6W 150 Ω ±5%		R785	GD05682160	1/6W	6.8K Ω ±5%
R713	GD05152160	1/6W 1.5K Ω ±5%		R787	GD05272160	1/6W	2.7K Ω ±5%
R714 R715	GD05152160 GD05271160	1/6W 1.5K Ω ±5%		R788	GD05333160	1/6W	33K Ω ±5%
R716	GD05271160 GD05271160	1/6W 270 Ω ±5% 1/6W 270 Ω ±5%		▲ R789 ▲ R790	GG05022160	1/6W	2.2Ω ±5%
R717	GD05271160	1/6W 220K Ω ±5%		▲R791	GG05022160 GG05181140	1/6W 1/6W	2.2Ω ±5%
R718	GD05224160	1/6W 220K Ω ±5%		▲R792	GG05100140	1/4W	180 Ω ±5% 10 Ω ±5%
R719	GD05473160	1/6W 47K Ω ±5%		▲R793	GG05100140	1/4W	10 Ω ±5%
R720	GD05473160	1/6W 47K Ω ±5%		▲ R794	BZ10182020		5W x 2 ARRAY
R721	GD05561160	1/6W 560 Ω ±5%		▲ R795	GG05100160	1/6W	10 Ω ±5%
R722	GD05561160	1/6W 560 Ω ±5%		▲ R796	GA05100010	1W.	10 Ω ±5%
▲ R723	GG05561160	1/6W 560 Ω ±5%		R797	GD05102160	1/6W	1KΩ ±5% 📵
▲ R724	GG05561160	1/6W 560 Ω ±5%		R797	GD05222160	1/6W	2.2K Ω ±5% BN
▲ R725 ▲ R726	GG05561160 GG05561160	1/6W 560 Ω ±5%		R798	GD05102160	1/6W	1KΩ ±5% IB
R727	GD05122160	1/6W 560 Ω ±5% 1/6W 1.2K Ω ±5%		R798	GD05222160 GD05102160	1/6W	2.2K Ω ±5% BR
R728	GD05122160	1/6W 1.2K Ω ±5%		R799 R799	GD05102160 GD05222160	1/6W 1/6W	1K Ω ±5% B 2.2K Ω ±5% BK
▲R729	GG05561160	1/6W 560 Ω ±5%		▲ R801	GG05010140	1/4W	1 Ω ±5% BK
▲ R730	GG05561160	1/6W 560 Ω ±5%		▲R802	GG05010140	1/4W	1 Ω ±5% BK
▲ R731	GG05561160	1/6W 560 Ω ±5%		▲ R803	GG05010140	1/4W	1Ω ±5% BK
▲ R732	GG05561160	1/6W 560 Ω ±5%		▲ R804	GG05010140	1/4W	1Ω ±5% BB
R733	GD05104160	1/6W 100K Ω ±5%		▲ U700	GG05010140	1/4W	1Ω ±5% 🔞
R734	GD05104160	1/6W 100K Ω ±5%		▲ U701	GG05010140	1/4W	1Ω ±5% 📵
▲R737	GG05560160	1/6W 56 Ω ±5%			GG05010140	1/4W	1Ω ±5% 📵
▲R738	GG05560160	1/6W 56 Ω ±5%		▲ U703	GG05010140	1/4W	1Ω ±5% 📵
▲R739 ▲R740	GG05560160 GG05560160	1/6W 56 Ω ±5%					
R741	GD05682160	1/6W 56 Ω ±5% 1/6W 6.8K Ω ±5%					
R742	GD05682160	1/6W 6.8K Ω ±5%					
R745	GD05272160	1/6W 2.7K Ω ±5%				CONTROL	S
R746	GD05272160	1/6W 2.7K Ω ±5%		RN63	RA01010780	TRIM-POT	
R747	GD05333160	1/6W 33K Ω ±5%			RA01010780	TRIM-POT	
R748	GD05333160	1/6W 33K Ω ±5%			RA01010780	TRIM-POT	
▲ R749	GG05022160	1/6W 2.2 Ω ±5%		R743	RA02220780	TRIM-POT	
▲ R750	GG05022160	1/6W 2.2 Ω ±5%			RA02220780	TRIM-POT	S 2.2K Ω
▲ R751	GG05022160	1/6W 2.2 Ω ±5%		R786	RA02220780	TRIM-POT	S 2.2K Ω
▲ R752	GG05022160	1/6W 2.2 Ω ±5%					
▲ R753	GG05181140	1/4W 180 Ω ±5%					

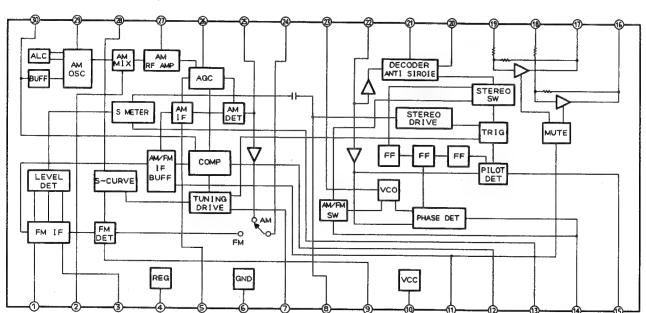
Ref. No.	Part. No.	<u>Description</u>	Ref. No.	Part. No.	Description
		INTEGRATED CIRCUITS	D707	HD20027010	HSS81TD
QN04	HC10042050	IC TA7317P (AVR80)	D707	HD20027010	HSS81TD
		Over Load Protector	D709	HD30911000	ZENER, 9.1V
▲ Q801	HC38915090	IC NJM7815FA Voltage Regulator	D710	HD30911000	ZENER, 9.1V
▲ Q802	HC39915090	IC NJM7915FA Voltage Regulator	D711	HD30911000	ZENER, 9.1V
▲ Q803	HC38905090	IC NJM7805FA Voltage Regulator	D712	HD30911000	ZENER, 9.1V
▲ Q804	HC39905090	IC NJM7905FA Voltage Regulator	D751	HD20002000	1SS176
▲ Q805	HC38905090	IC NJM7805FA Voltage Regulator	D752	HD20002000	1SS176
			D753	HD20027010	HSS81TD
4.04104		TRANSISTORS	D754	HD20027010	HSS81TD
▲QN01	HT322402A0	2SC2240 (GR, BL)	D755	HD30911000	ZENER, 9.1V
AQN02	HT322402A0	2SC2240 (GR, BL)	D756	HD30911000	ZENER, 9.1V
QN03	HT109702A0	2SA970 (GR, BL)	▲ D801	HE20012290	D5FB20
QN07 QN08	HT10001000 HT316272B0	2SA608SP	▲ D802 ▲ D803	HE20012290	D5FB20
AQN51	HT322402A0	2SC1627 (O, Y) 2SC2240 (GR, BL)	▲ D804	HE20011290	S2VB20
Q701	HT109702A0	2SA970 (GR, BL)	D805	HE20011290 HD20002710	\$2VB20 1D3 1A/200V
Q702	HT109702A0	2SA970 (GR, BL)	D806	HD20002710	1D3 1A/200V
Q703	HT109702A0	2SA970 (GR, BL)	D807	HD20002710	1D3 1A/200V
Q704	HT109702A0	2SA970 (GR, BL)	D808	HD20002710	1D3 1A/200V
Q705	HT109702A0	2SA970 (GR, BL)	D809	HD20002710	1D3 1A/200V
Q706	HT109702A0	2SA970 (GR, BL)			
Q707	HT327052A0	2SC2705 (O, Y)			COILS
Q708	HT327052A0	2SC2705 (O, Y)	L701	ML08010030	AIR, SPK CHOCK
Q709	HT327052A0	2SC2705 (O, Y)	L702	ML08010030	AIR, SPK CHOCK
Q710	HT327052A0	2SC2705 (O, Y)	L751	ML08010030	AIR, SPK CHOCK
Q711	HT113602A0	2SA1360 (O, Y)			
Q712	HT113602A0	2SA1360 (O, Y)			MISCELLANEOUS
Q713	HT334232A0	2SC3423 (O, Y)	▲ F801	FS20040210	FUSE TR5 T400MA 250V BK
Q714 Q715	HT334232A0	2SC3423 (O, Y)	JN01	YP06013130	PLUG, 13P (AVR80MKII)
Q716	HT334191Y0 HT334191Y0	2SC3419Y 2SC3419Y	J701 J702	YP06004570	PLUG, 13P
▲ Q717	HT348821A0	2SC4883 (O, Y)	J702	YP06019700 YP06010450	PLUG, 20P PLUG, 5P
▲ Q718	HT348821A0	2SC4883 (O, Y)	J707	YL01010240	TERMINAL, GND
▲ Q719	HT118592A0	2SA1859 (O,Y)	J708	YL01010240	TERMINAL, GND
▲ Q720	HT118592A0	2SA1859 (O,Y)	J709	YL01010240	TERMINAL, GND
▲ Q721	HT332812A0	2SC3281 (R, O)	J710	YL01010240	TERMINAL, GND
▲ Q722	HT332812A0	2SC3281 (R, O)	J711	YL01010240	TERMINAL, GND
▲ Q723	HT113022A0	2SA1302 (R, O)	J712	YL01010240	TERMINAL, GND
▲ Q724	HT113022A0	2SA1302 (R, O)	J801	YP06010950	PLUG, 5P
Q751	HT109702A0	2SA970 (GR, BL)	J802	YP06003690	PLUG, 6P
Q752	HT109702A0	2\$A970 (GR, BL)	J803	YP06010950	PLUG, 5P
Q753 Q754	HT109702A0 HT327052A0	2SA970 (GR, BL) 2SC2705 (O, Y)	J804	YP06003830	PLUG, 3P
Q755	HT327052A0	2SC2705 (O, Y) 2SC2705 (O, Y)	LN01 LN02	LY20180020 LY20180020	RELAY
Q756	HT113602A0	2SA1360 (O, Y)	LN02	LY20180020 LY20240410	RELAY (AVR80MKII)
Q757	HT334232A0	2SC3423 (O, Y)	LN03	LY20240410 LY20240450	RELAY (AVR80MKII)
Q758	HT334191Y0	2SC3419Y	LN51	LY20180020	RELAY
▲ Q759	HT348821A0	2SC4883 (O, Y)			
▲ Q760	HT118592A0	2SA1859 (O,Y)		DYSA CON TE	RMINAL P.C. BOARD
▲ Q761	HT332812A0	2SC3281 (R, O)			INMINIAL F.C. DOARD
▲ Q762	HT113022A0	2SA1302 (R, O)			CAPACITORS
			C727	DK18103310	CERAMIC 0.01µF +80% -20%
		DIODES	C728	DK18103310	CERAMIC 0.01µF +80% -20%
DN01	HD20002710	1D3 1A/200V	C729	DK18103310	CERAMIC 0.01µF +80% -20% B
DN02	HD20002710	1D3 1A/200V	C730	DK18103310	CERAMIC 0.01µF +80% -20% B
DN03	HD20002710	1D3 1A/200V	C731	DK18223310	CERAMIC0.022µF +80% -20% (B)
DN04	HD20002710	1D3 1A/200V	C732	DK18223310	CERAMIC0.022μF +80% -20% IB
DN07 DN08	HD20027010 HD20027010	HSS81TD HSS81TD	C733	DK18103310	CERAMIC 0.01μF +80% -20% IB
DN09	HD20027010	1D3 1A/200V	C734	DK18103310	CERAMIC 0.01μF +80% -20% (B)
DN51	HD20002710	1D3 1A/200V	C764	DK18103310	CERAMIC 0.01µF +80% -20% IB
DN52	HD2002710	HSS81TD	C765	DK18103310	CERAMIC 0.01μF +80% -20% IB
D701	HD20002000	1SS176			MICOTI : ANTOLIC
D702	HD20002000	1SS176	1700	V Incommon	MISCELLANEOUS
D703	HD20002000	1SS176	J703 J704	YJ06020800 YT01080120	JACK, 20P
D704	HD20002000	1SS176	J751	YT01080120 YT01020220	TERMINAL, SPK 8P TERMINAL, SPK2P
D705	HD20027010	HSS81TD	0101	101020220	I CHRYINAC, OFINEE
D706	HD20027010	HSS81TD			

IC BLOCK DIAGRAMS

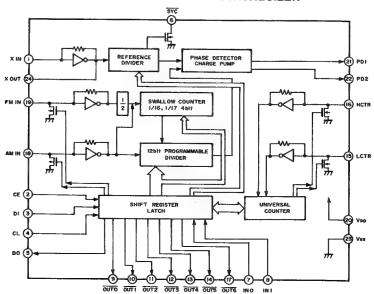
QY10: TC9173 QY11: TC9174 **PORT EXPANDER**



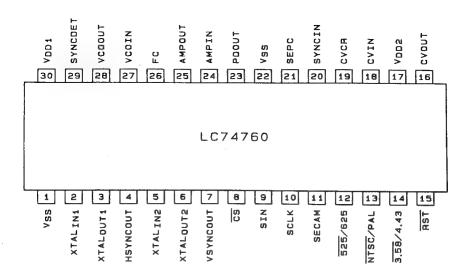
Q201: LA1836 FM / AM IF, MPX IC

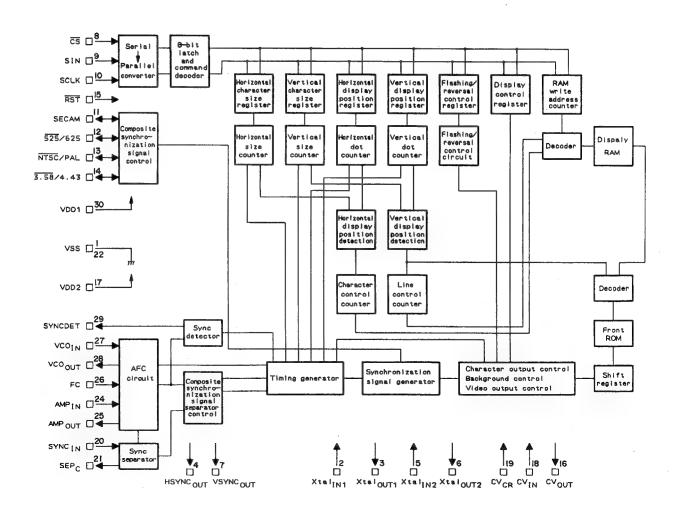


Q501: LC7218 PLL FREQUENCY SYNTHESIZER

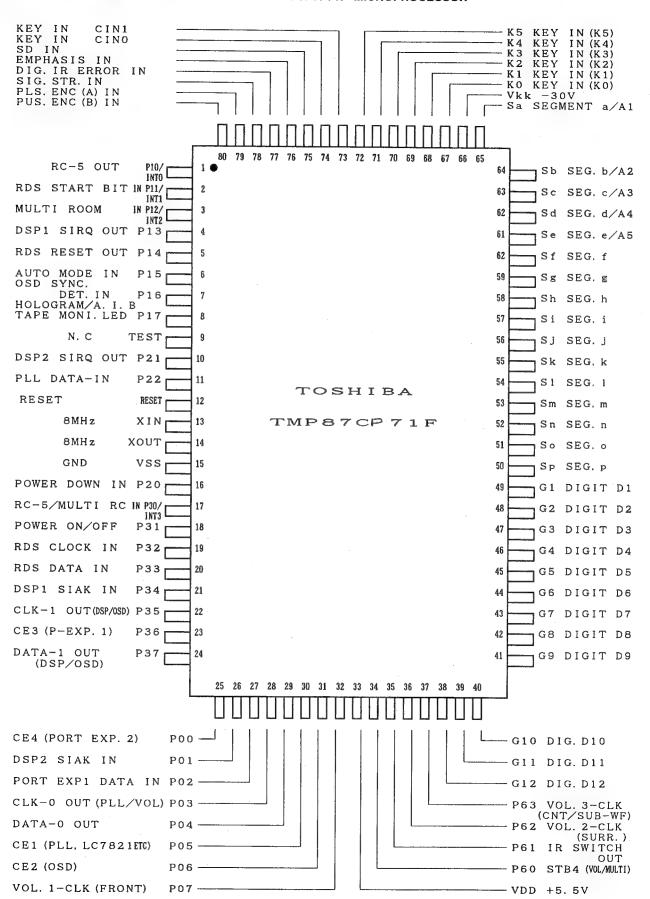


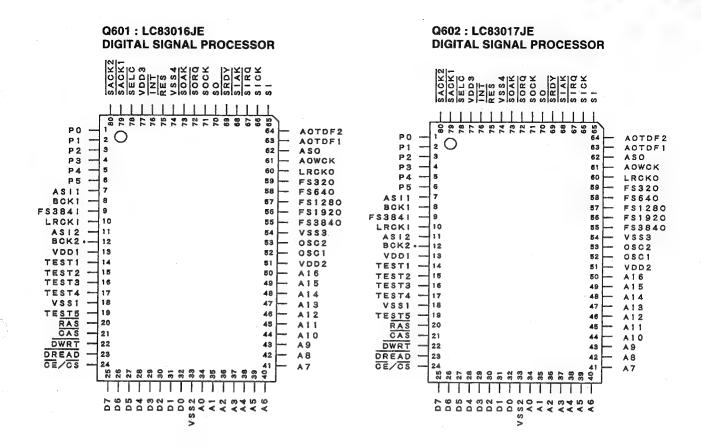
QX60 : LC74760-9004 OSD LSI



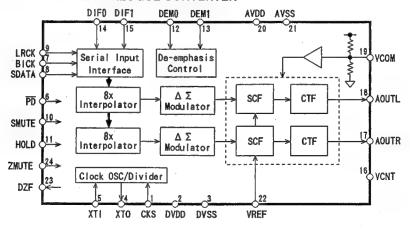


QU01: TMP87CP71F MICROPROCESSOR

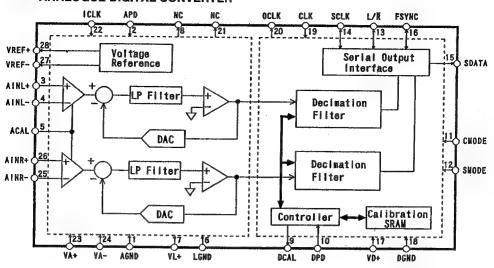




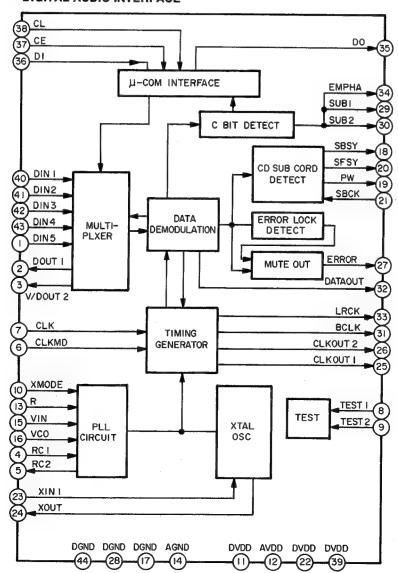


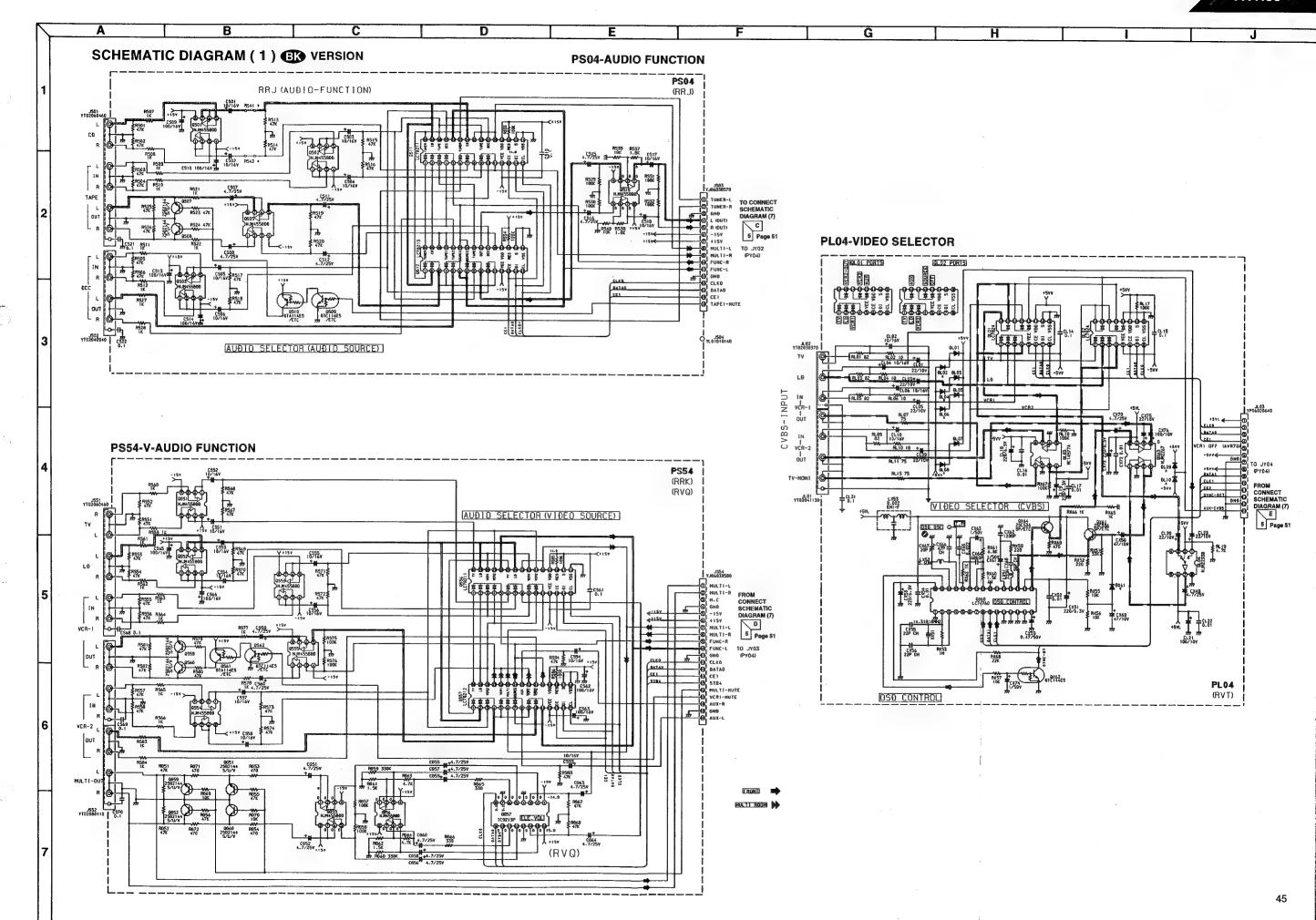


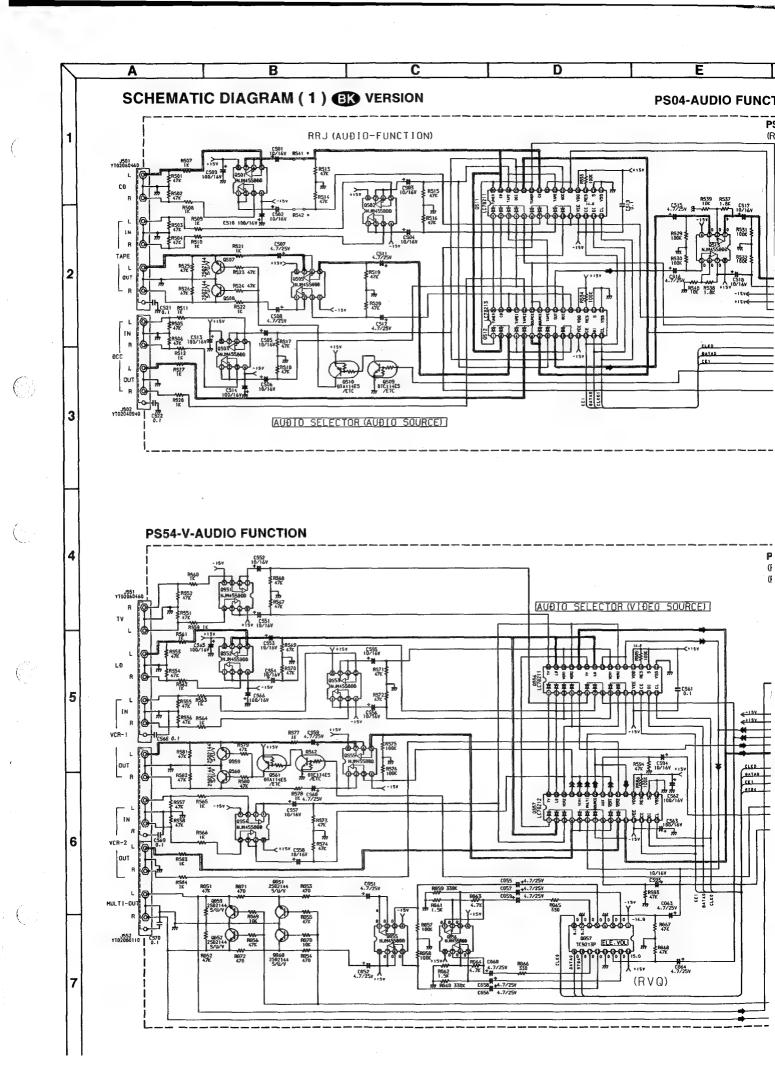
Q608: AK5389 ANALOGUE DIGITAL CONVERTER

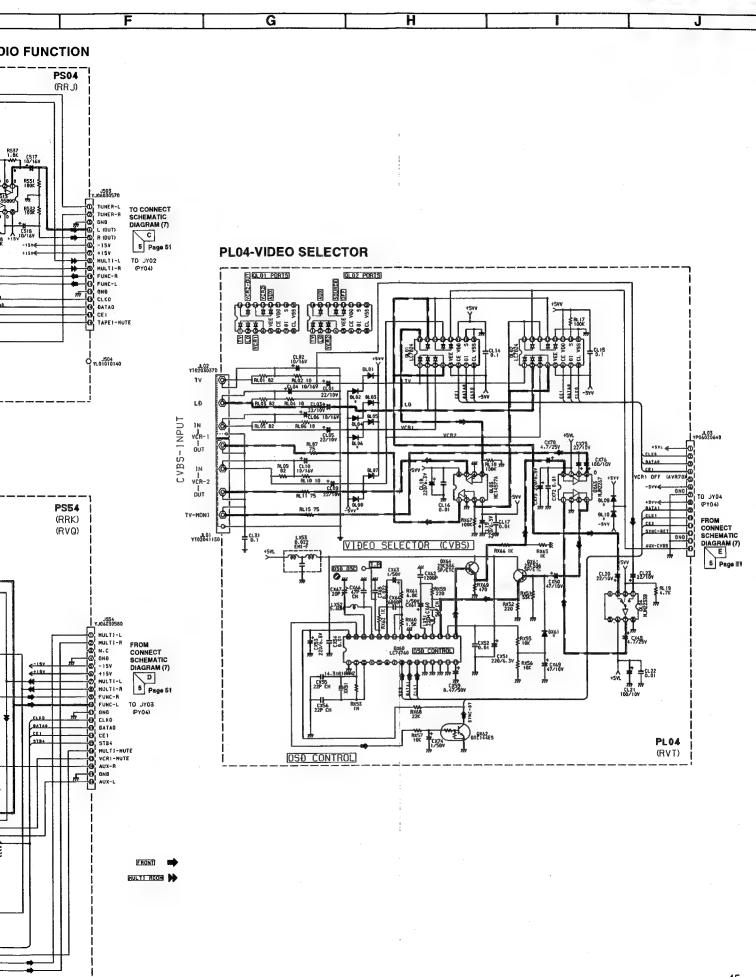


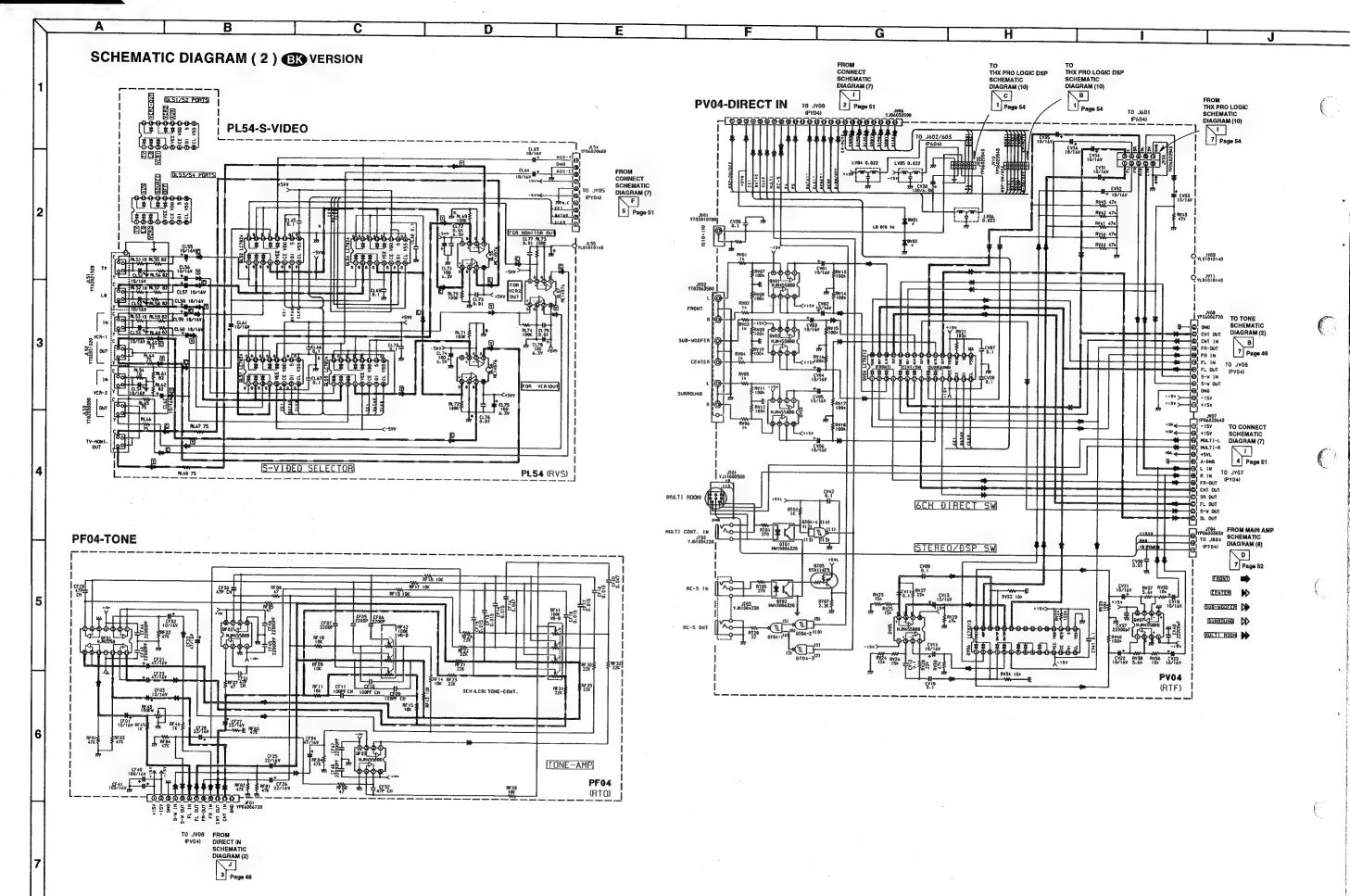
Q619: LC8903Q DIGITAL AUDIO INTERFACE

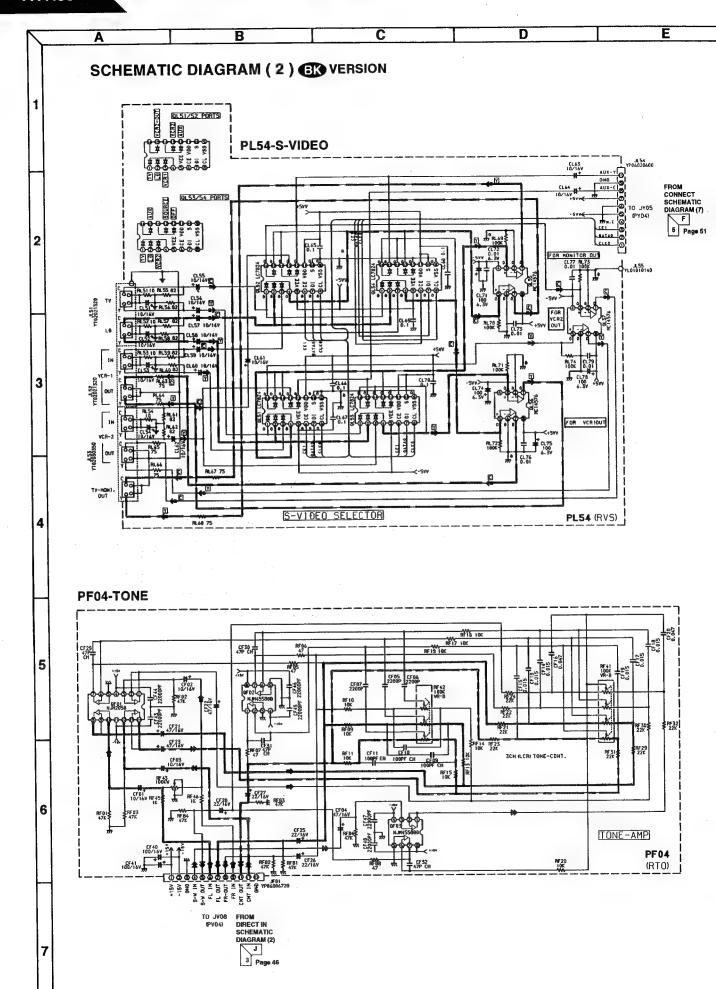


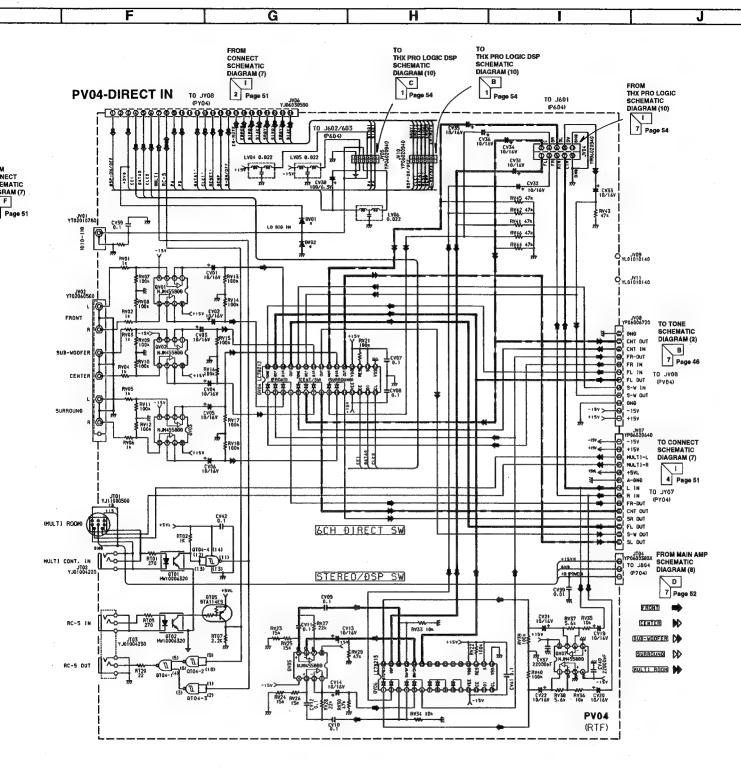


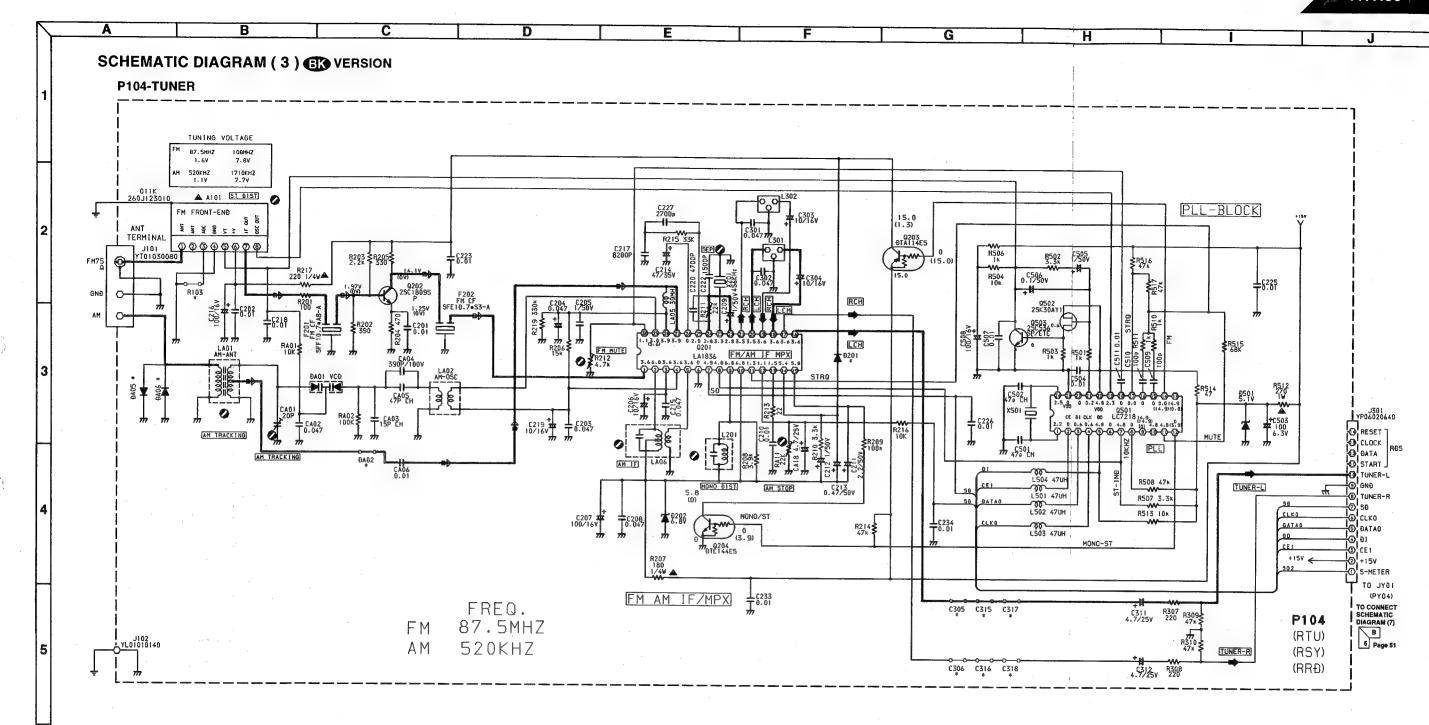


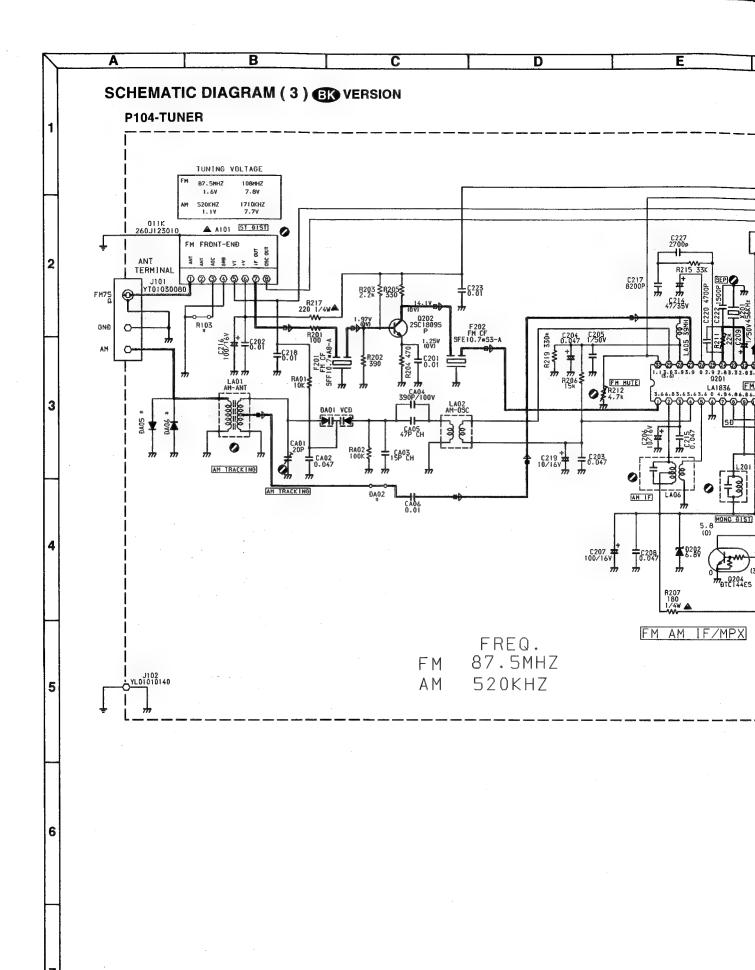


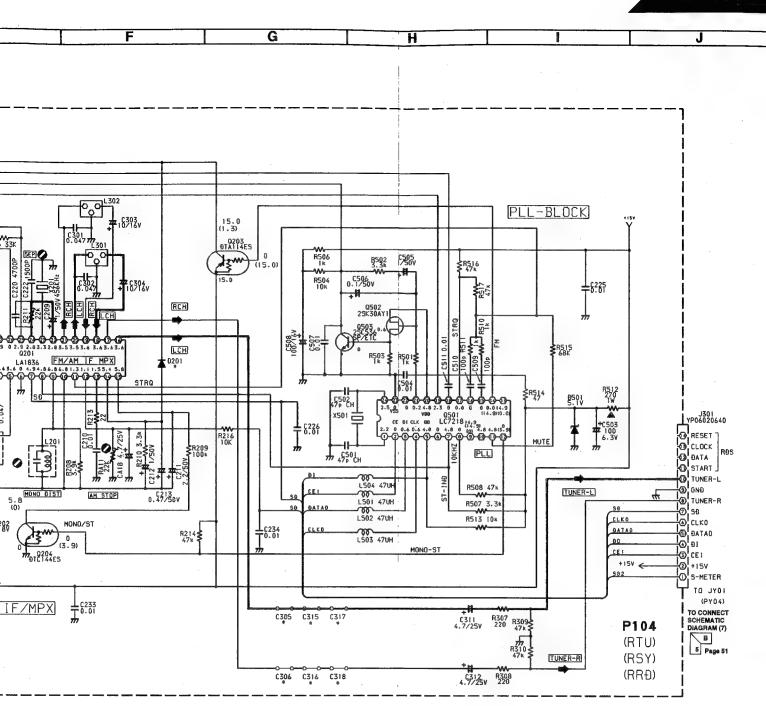


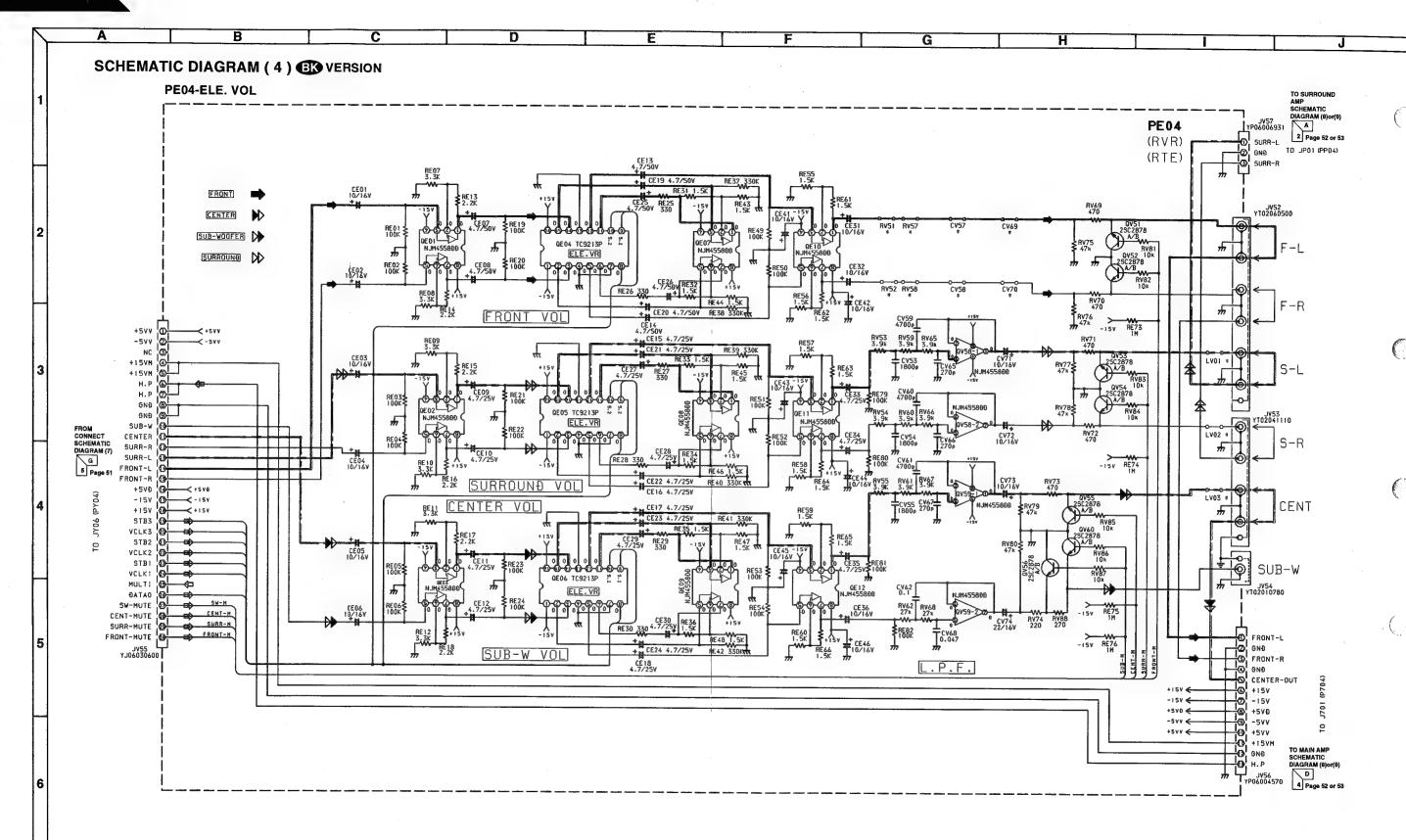


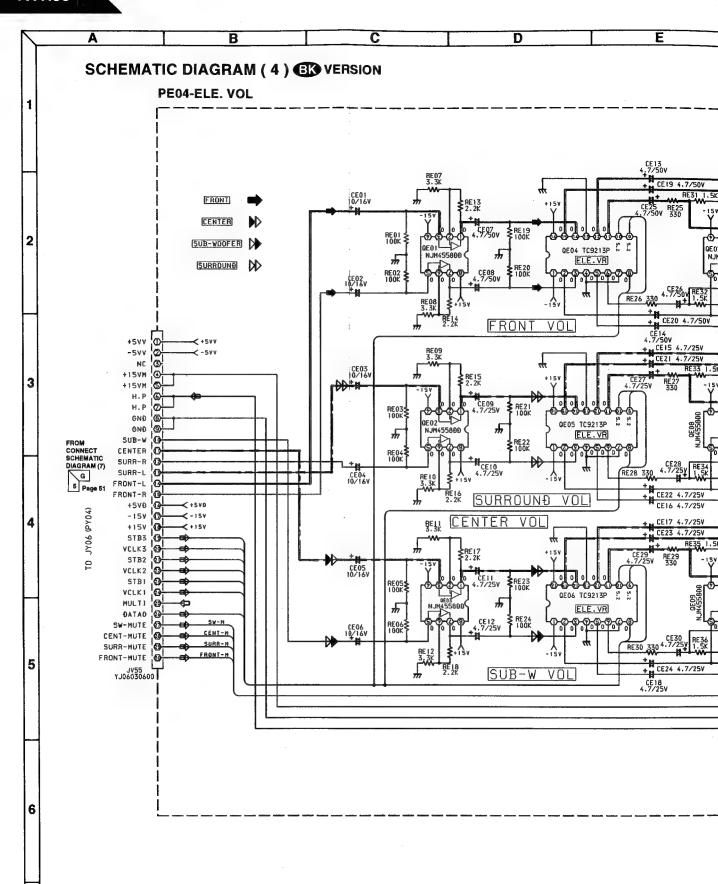


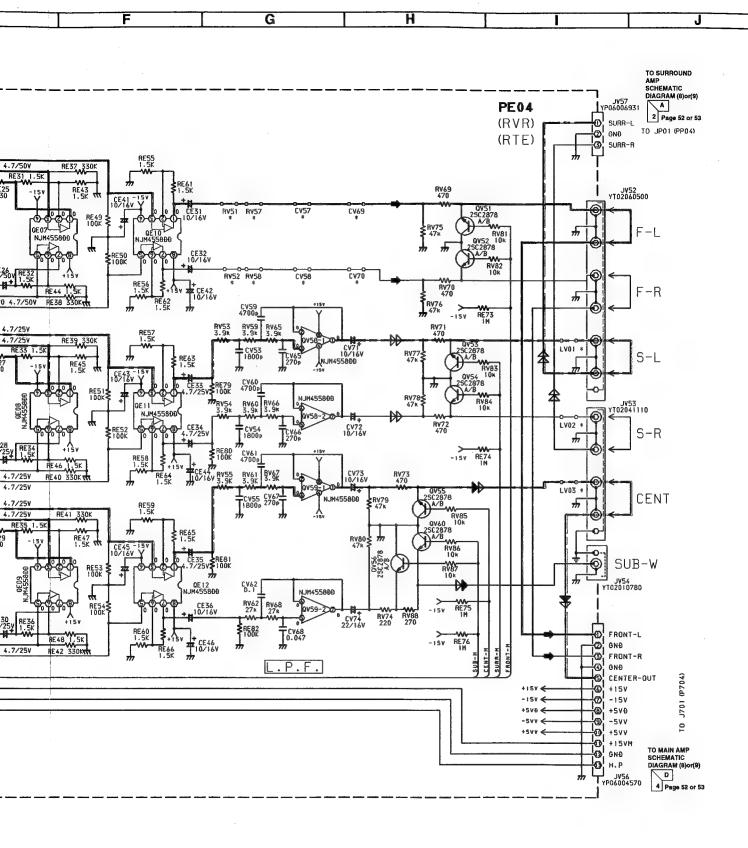


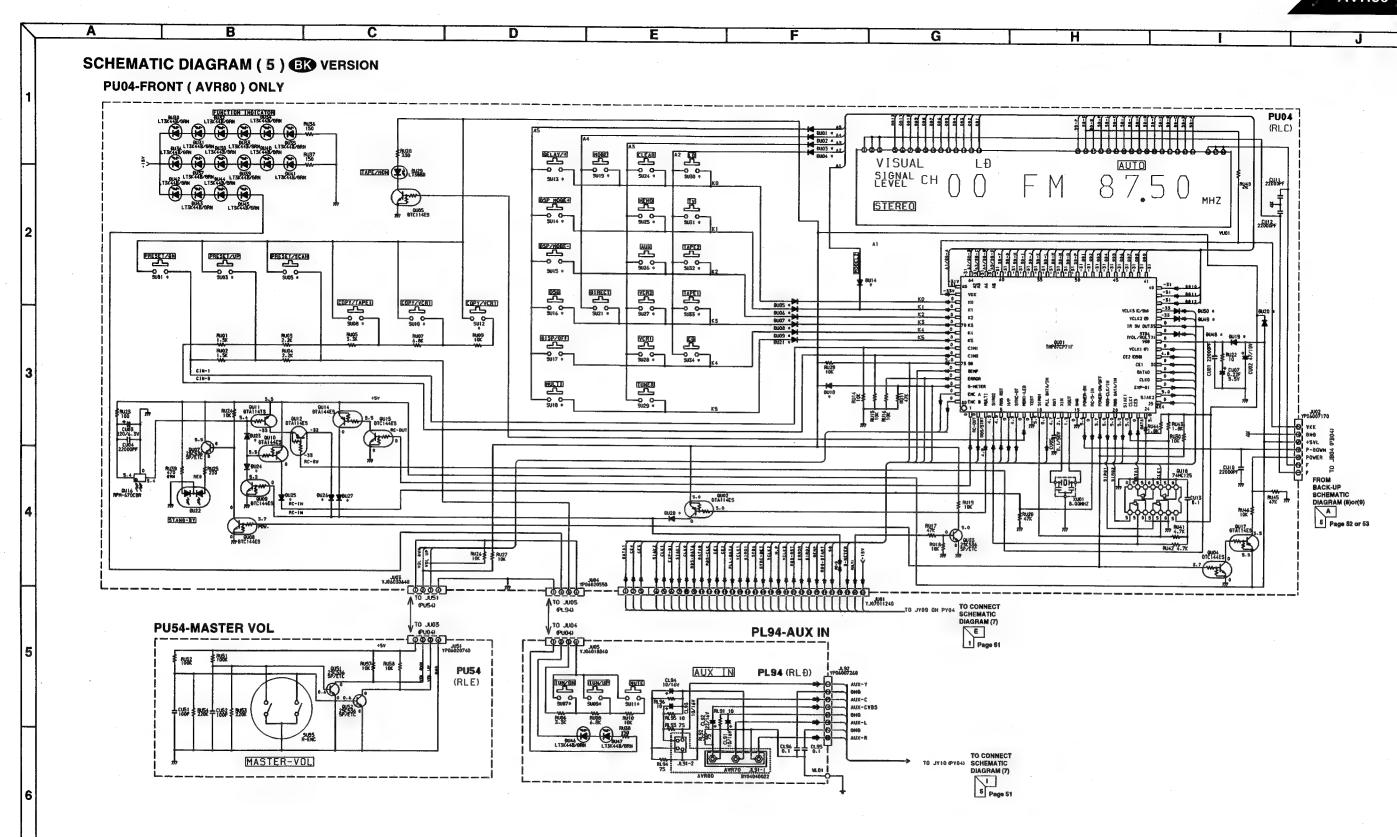


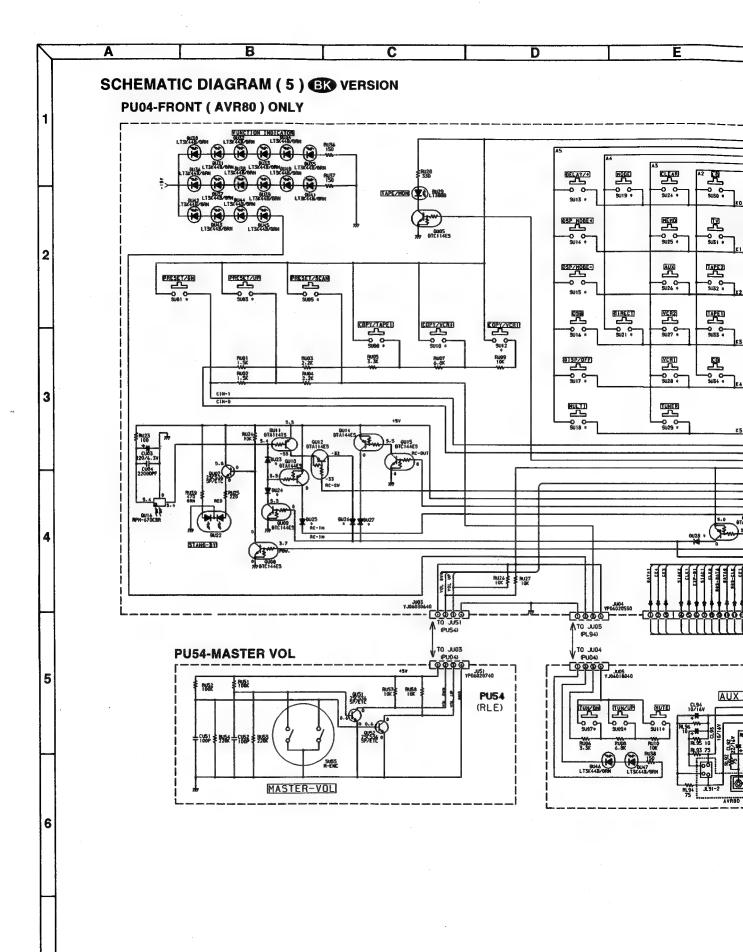


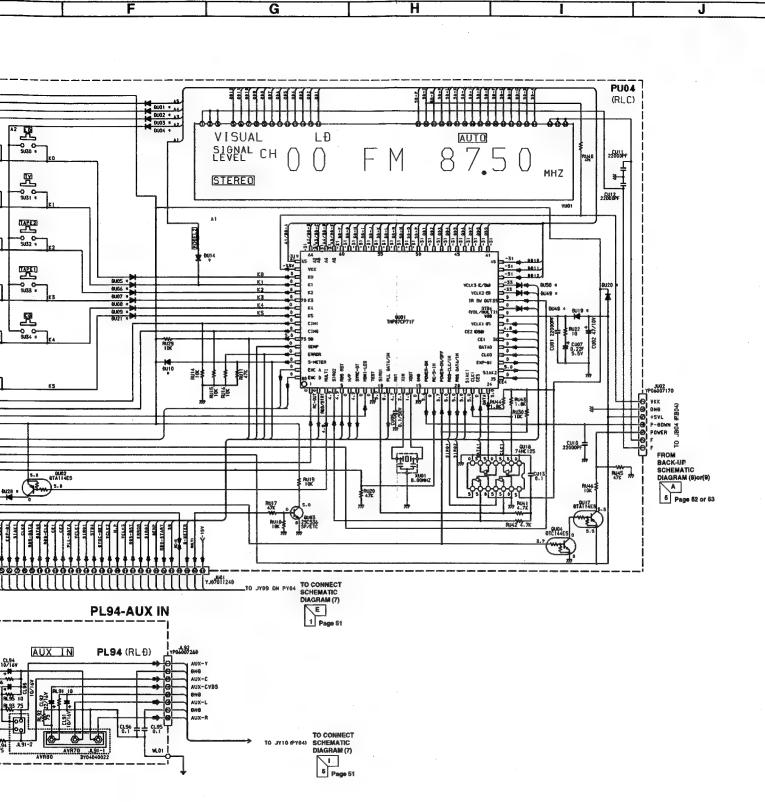


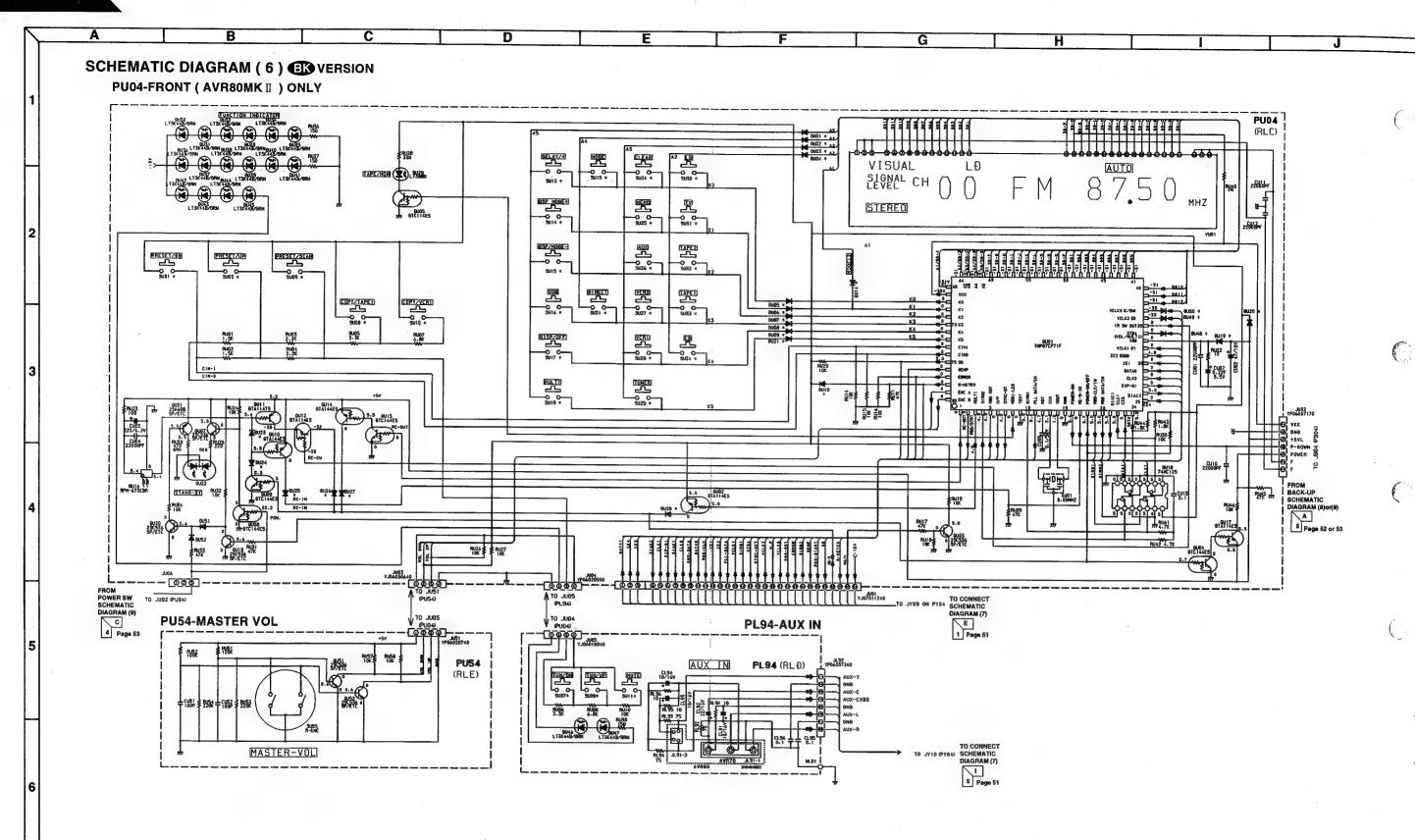




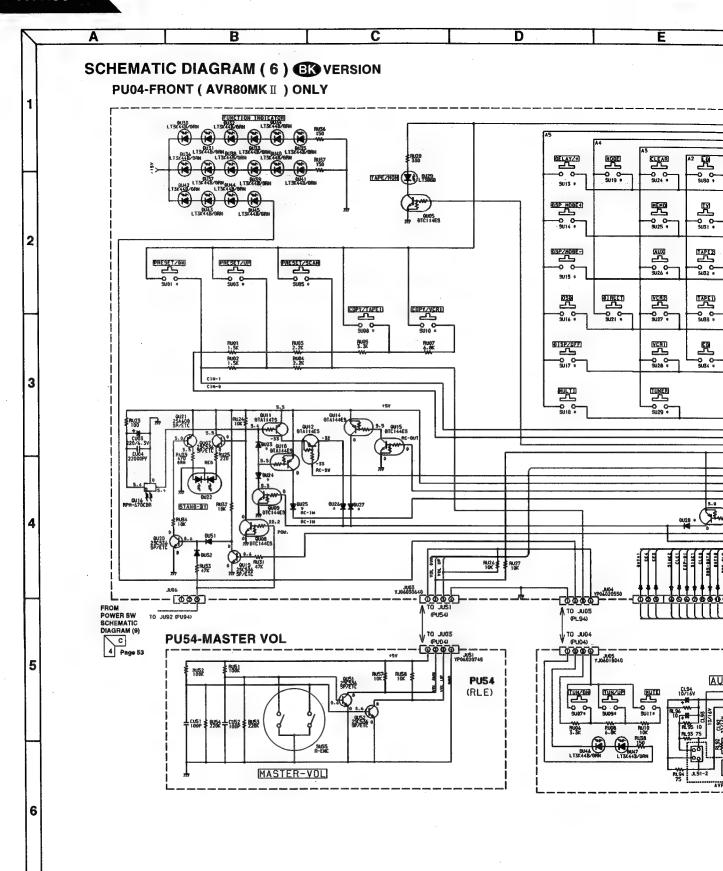


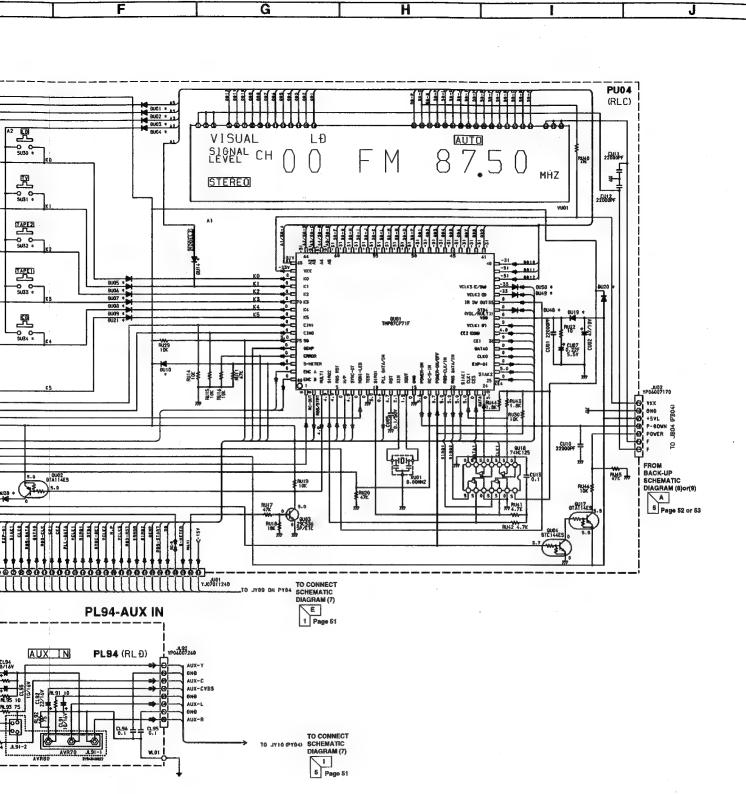


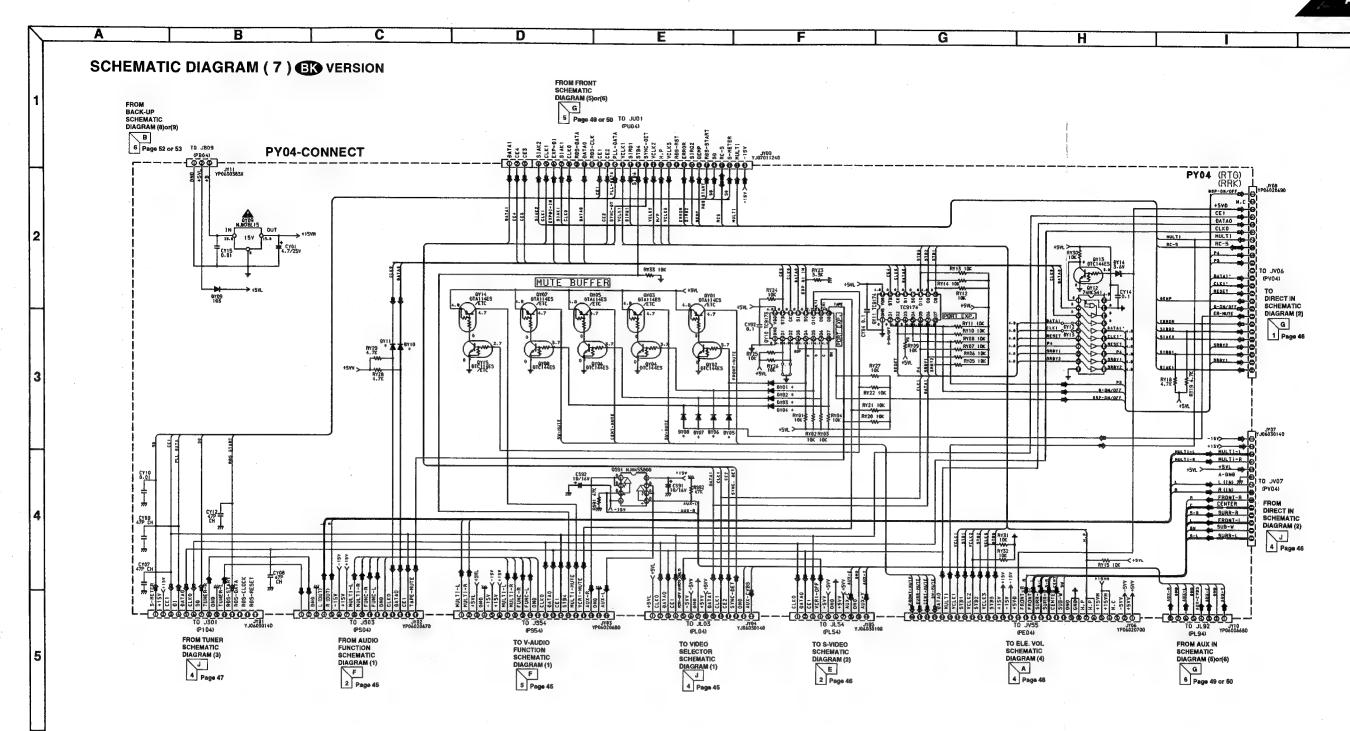


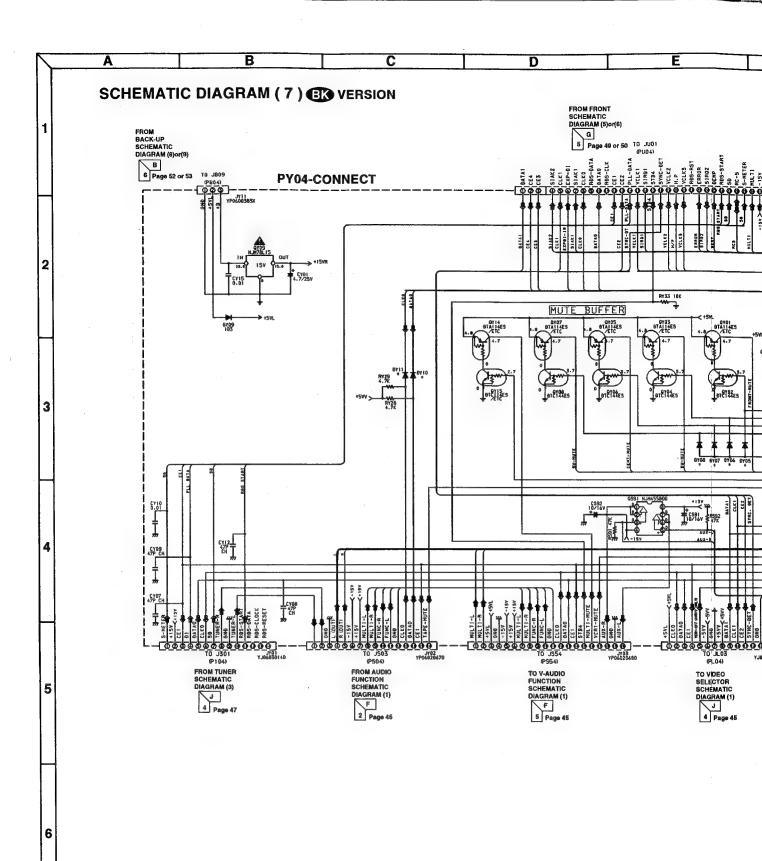


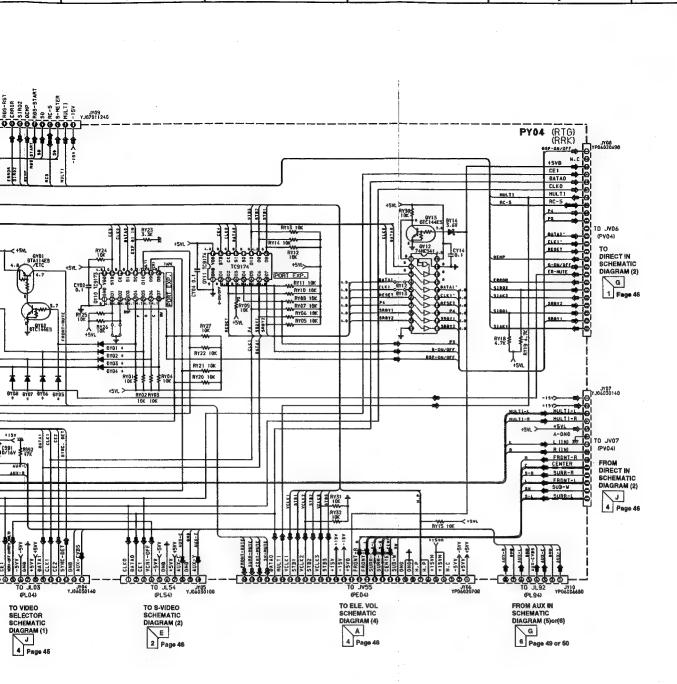
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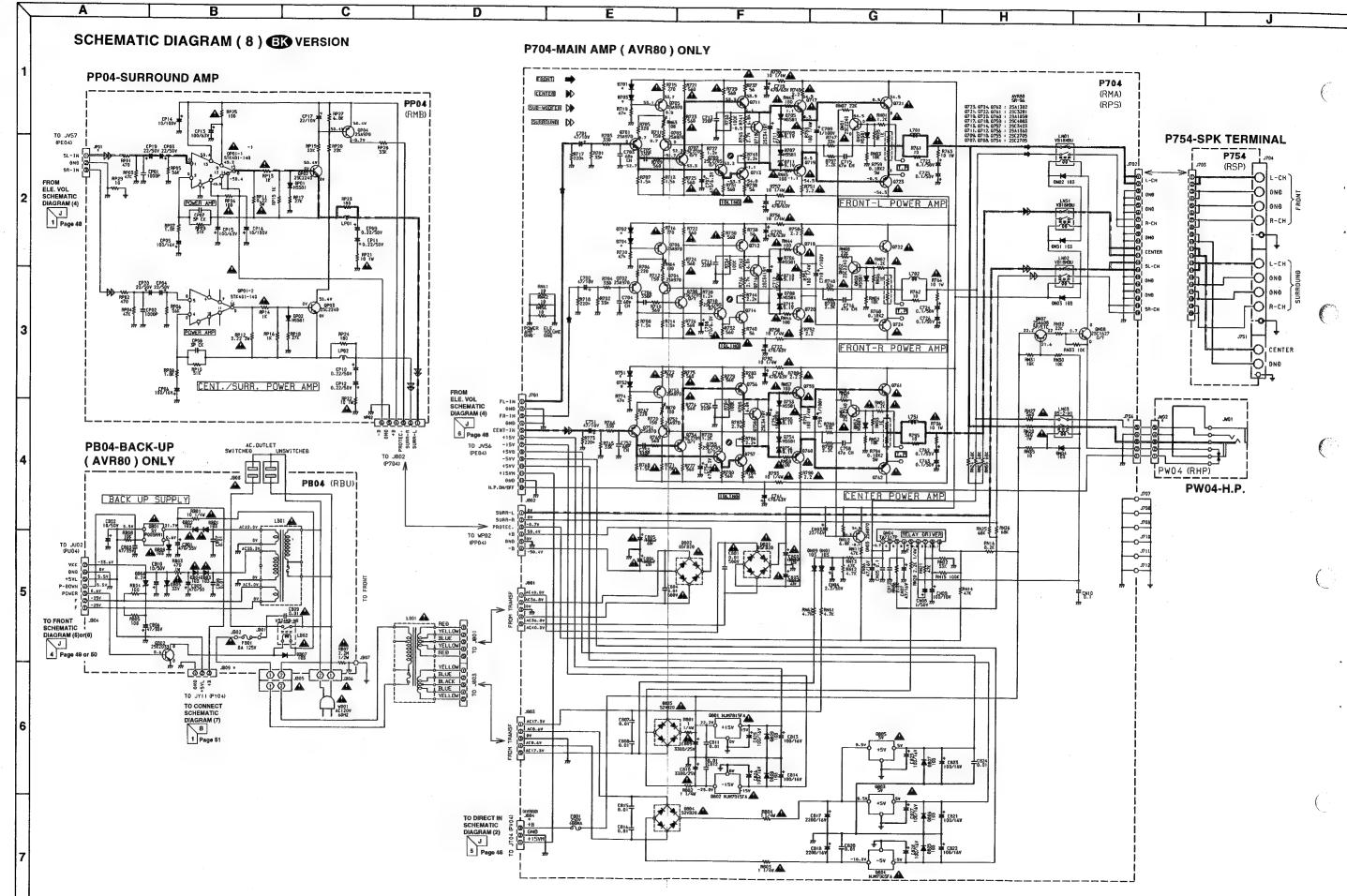


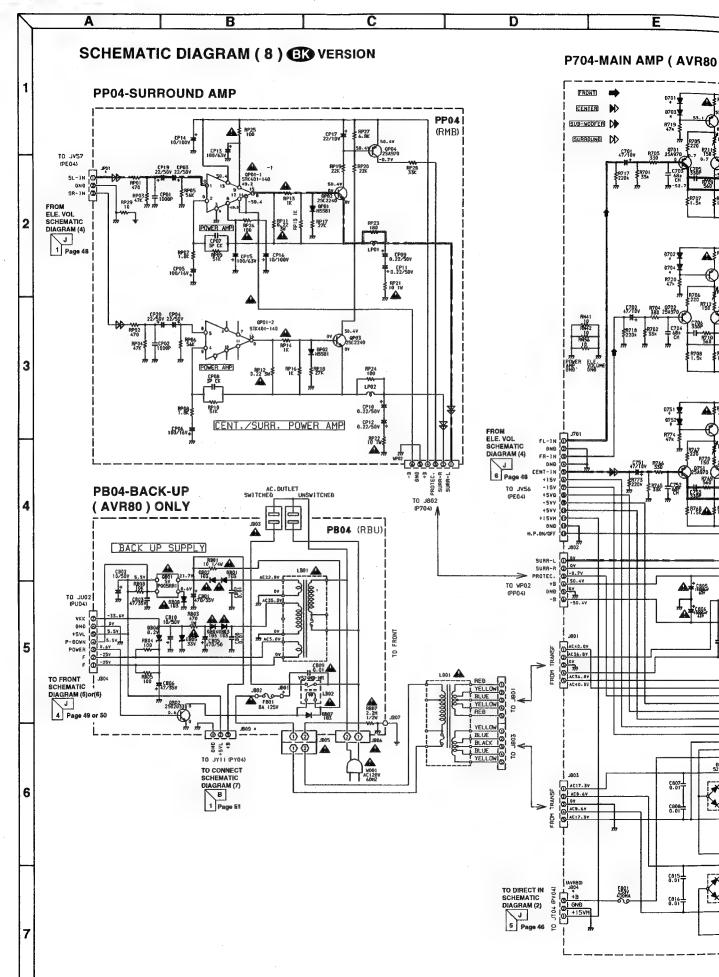


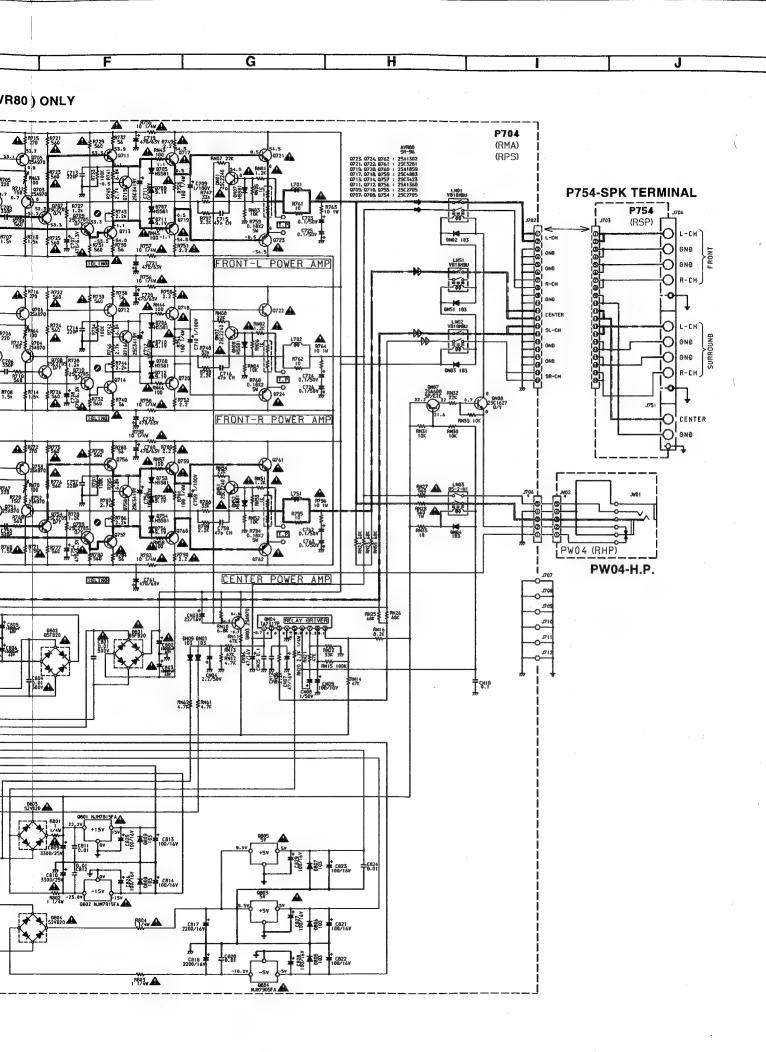


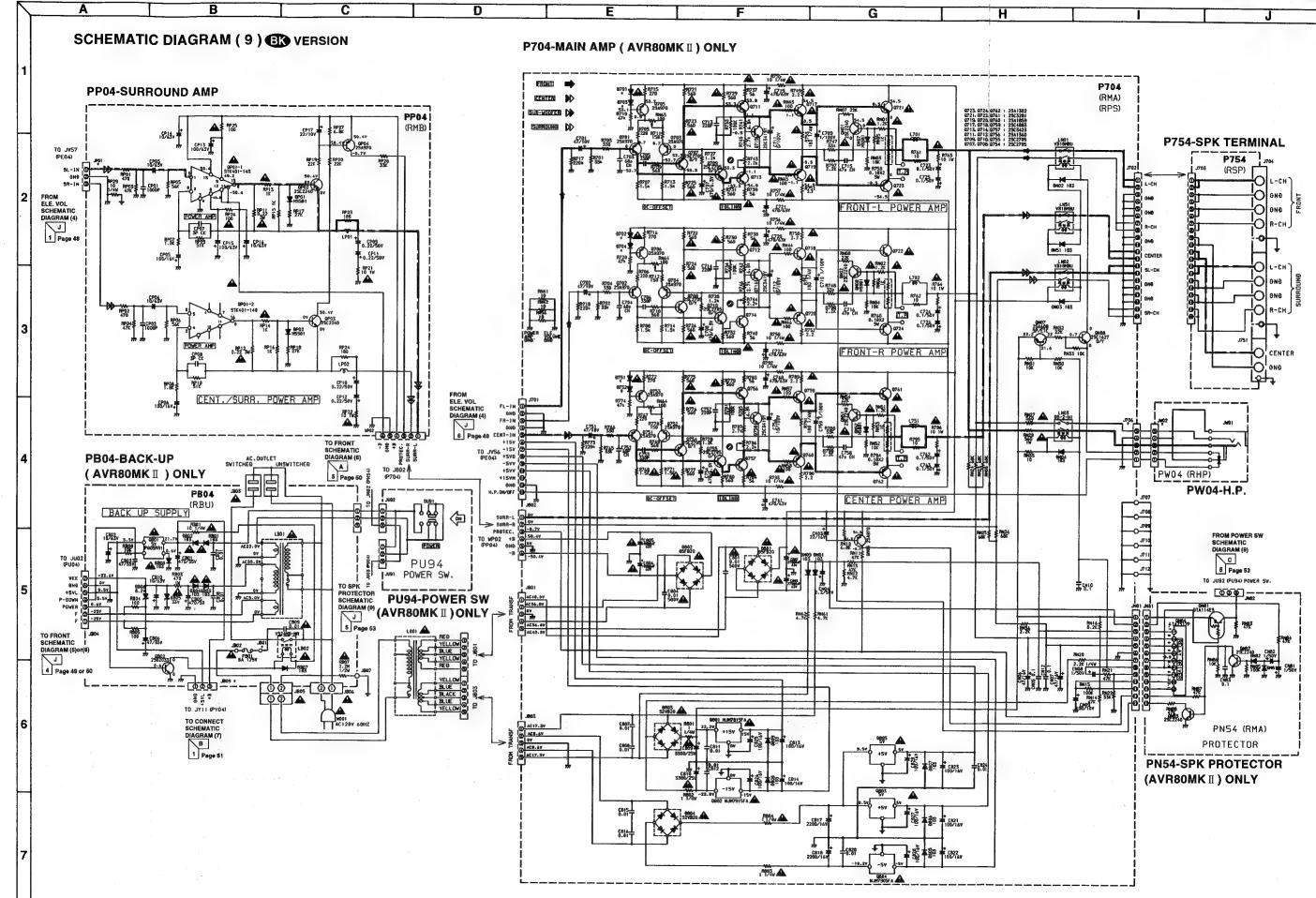
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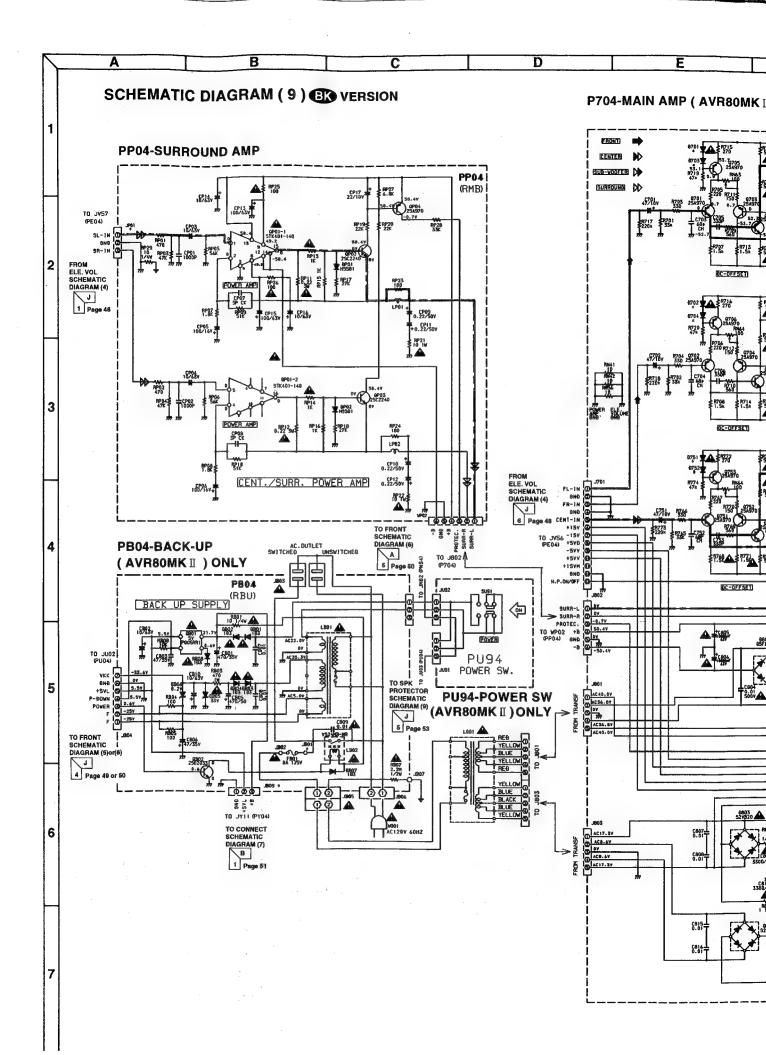
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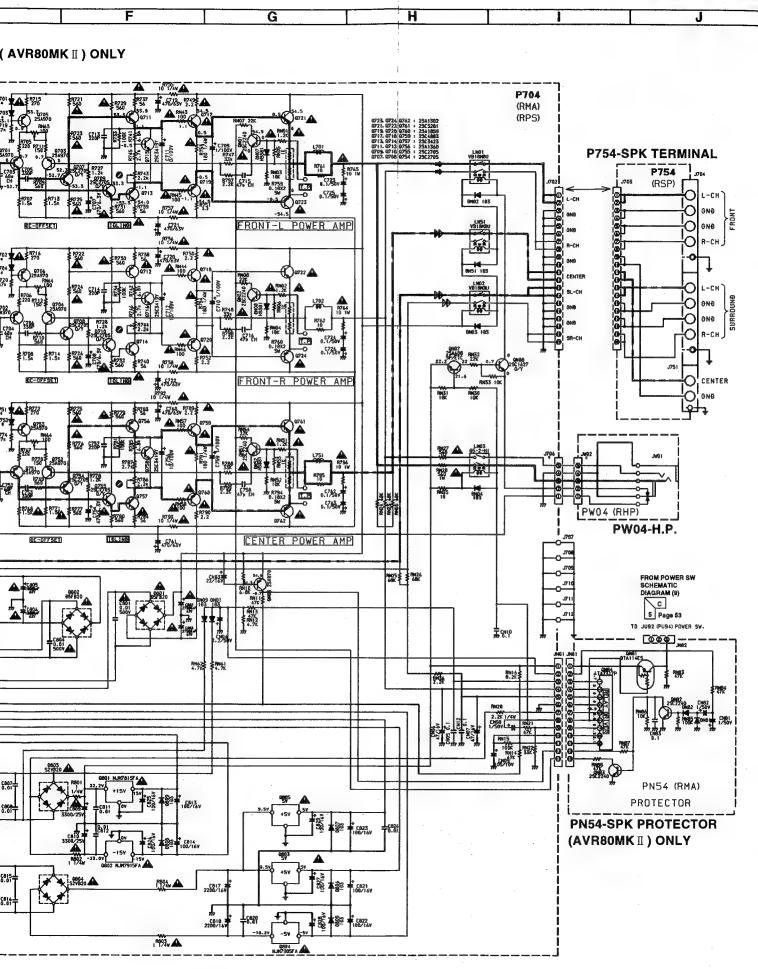


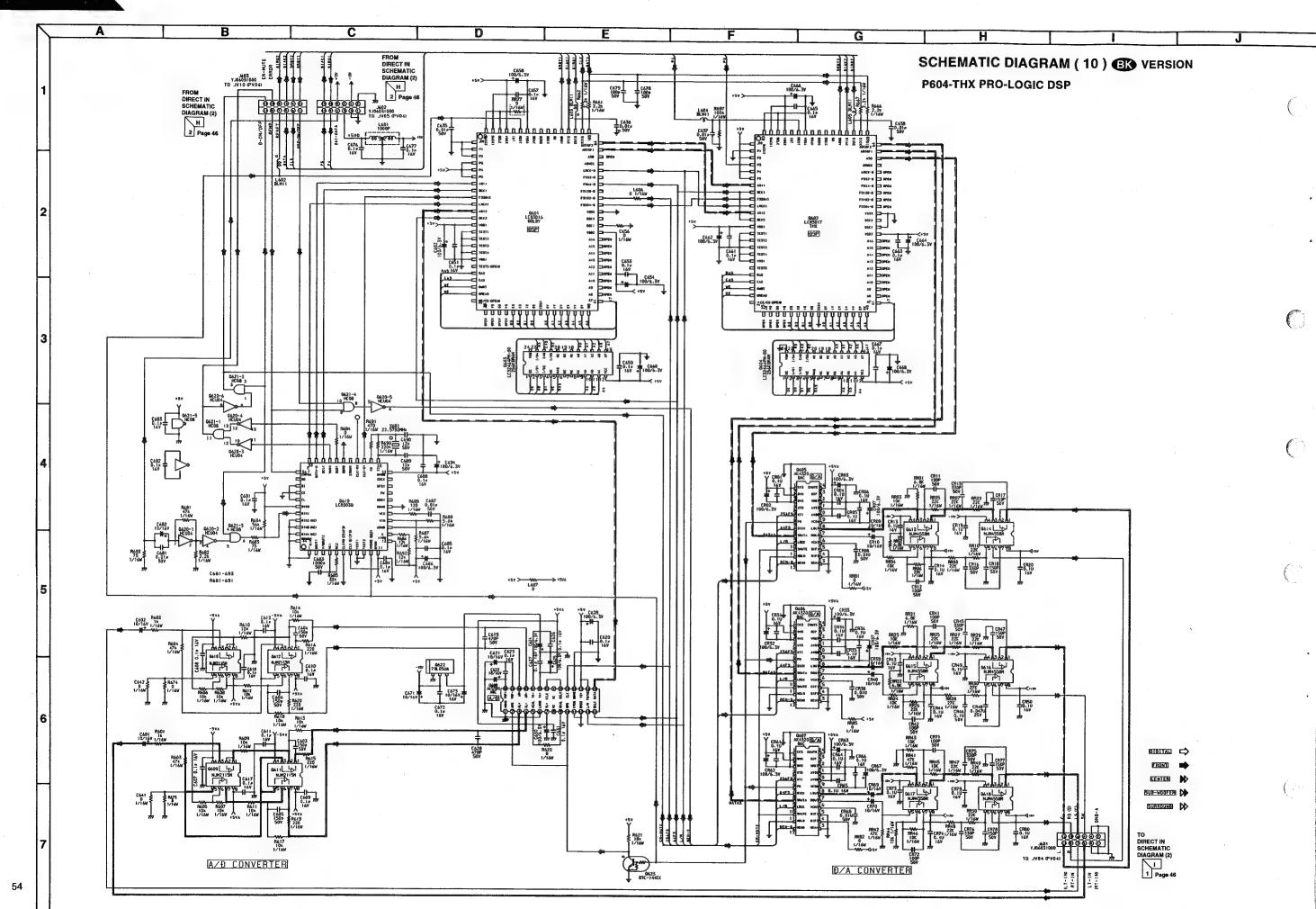


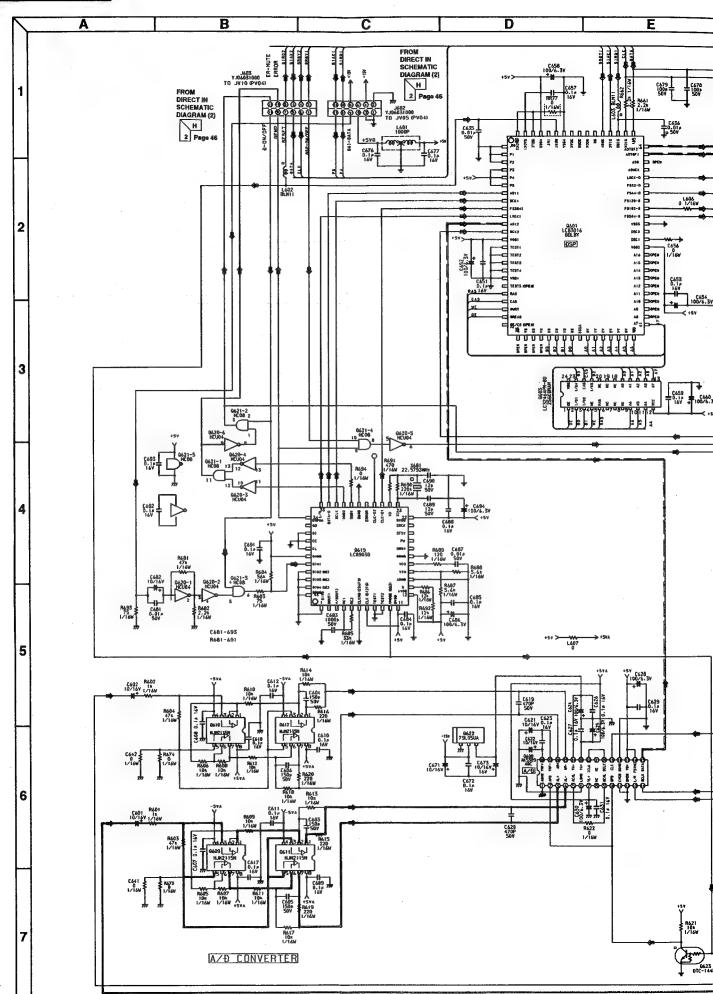


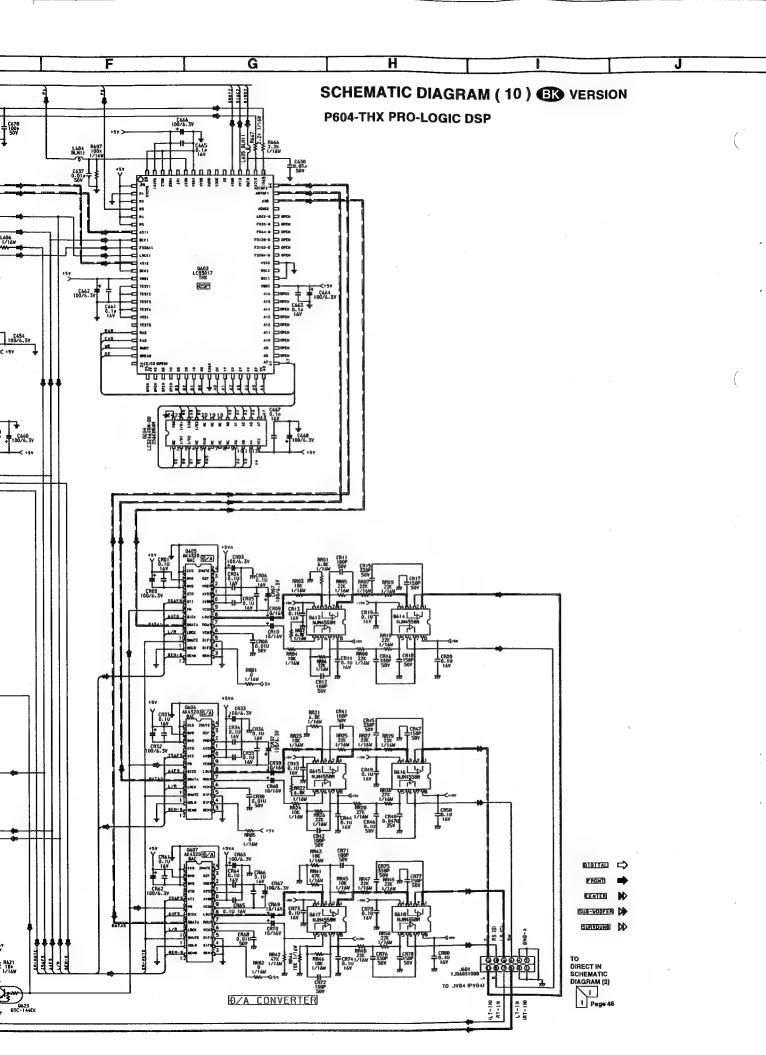


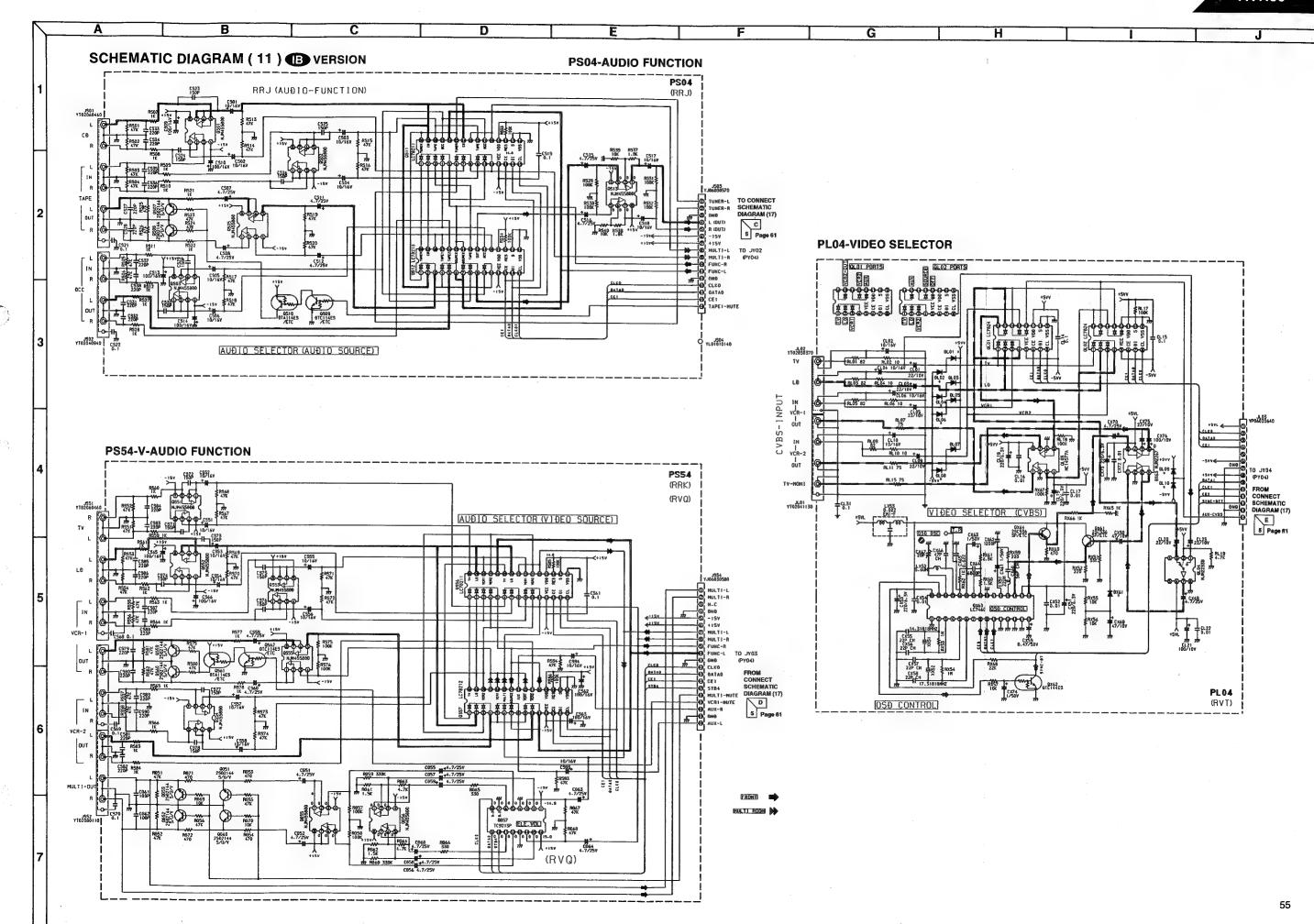


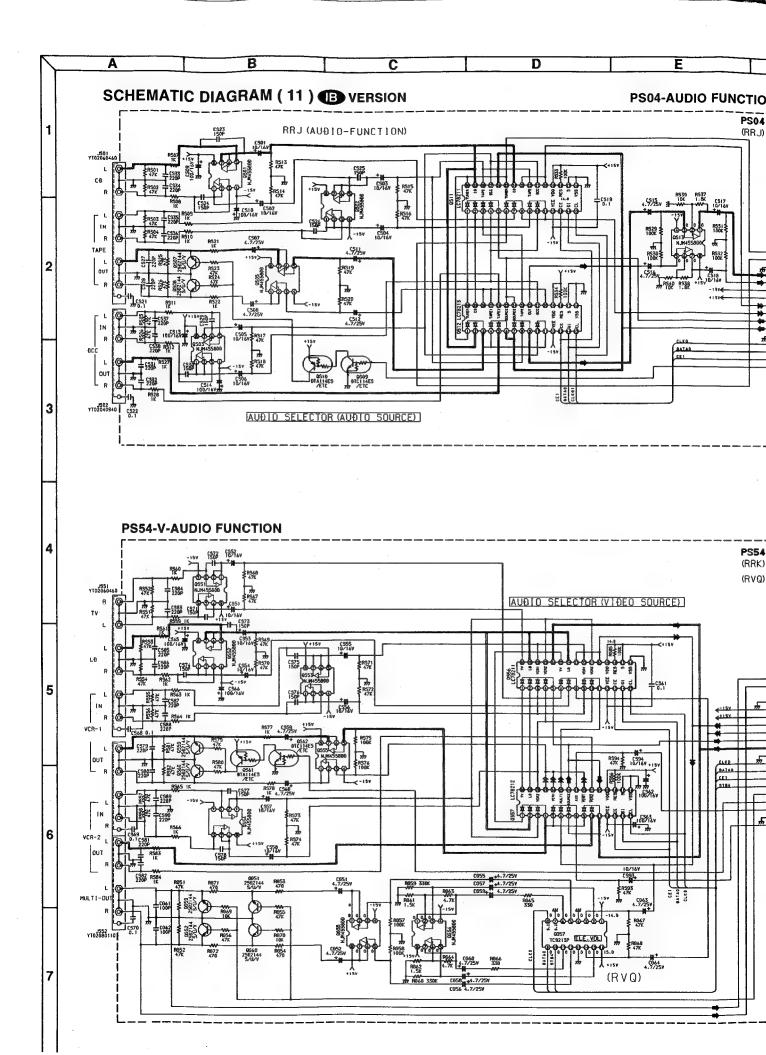


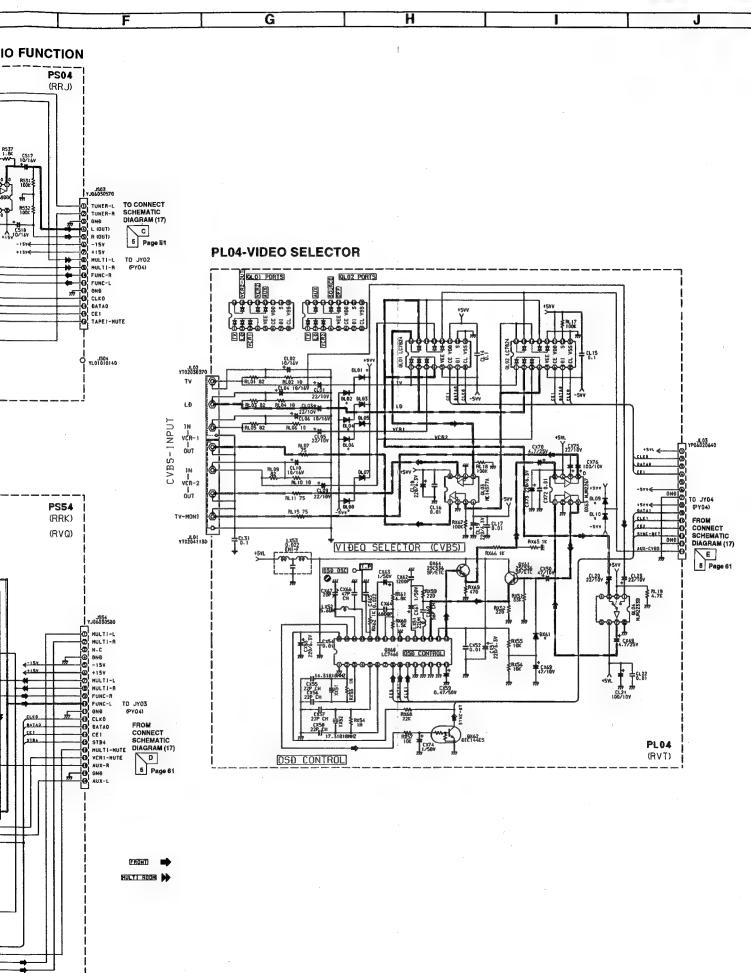


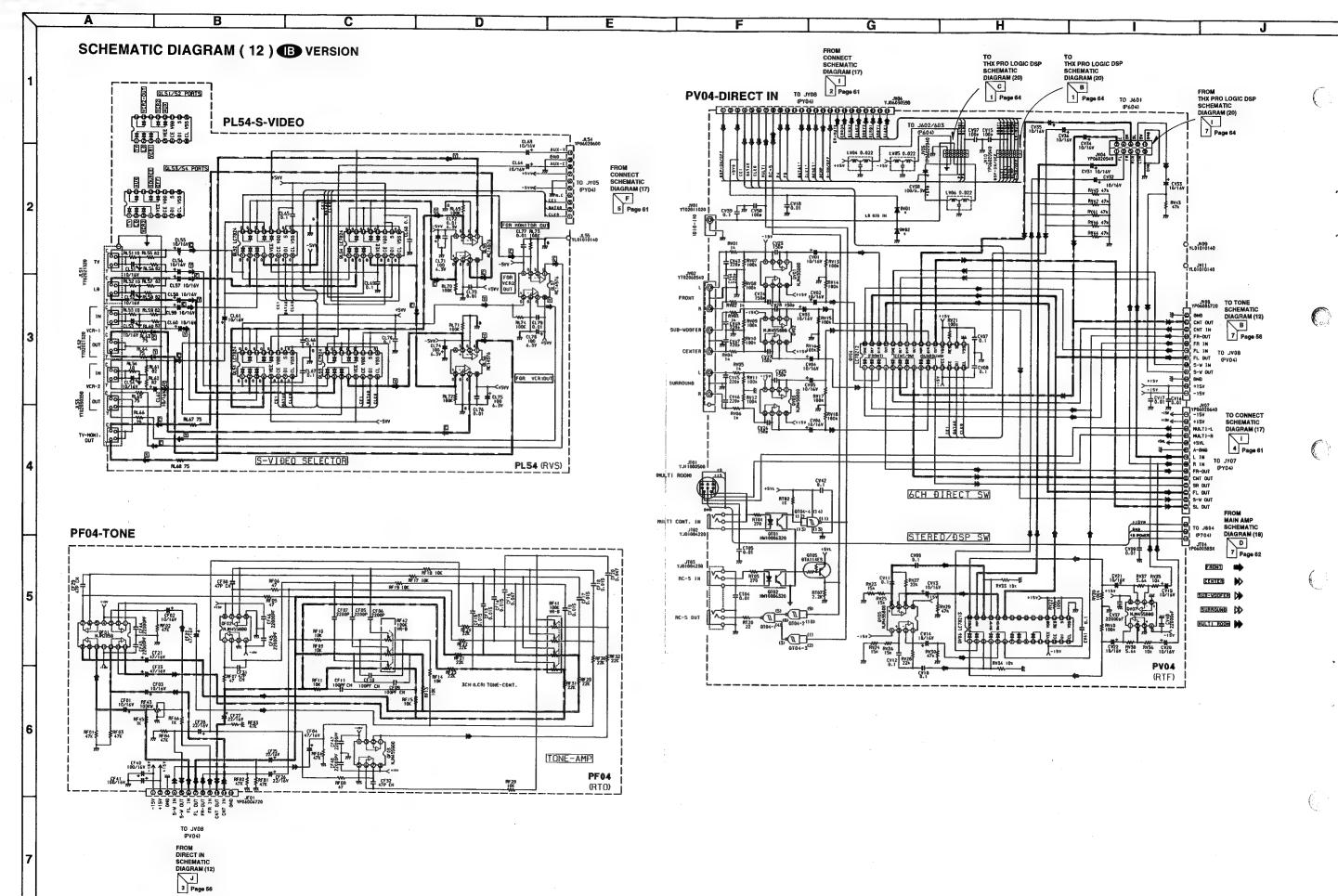




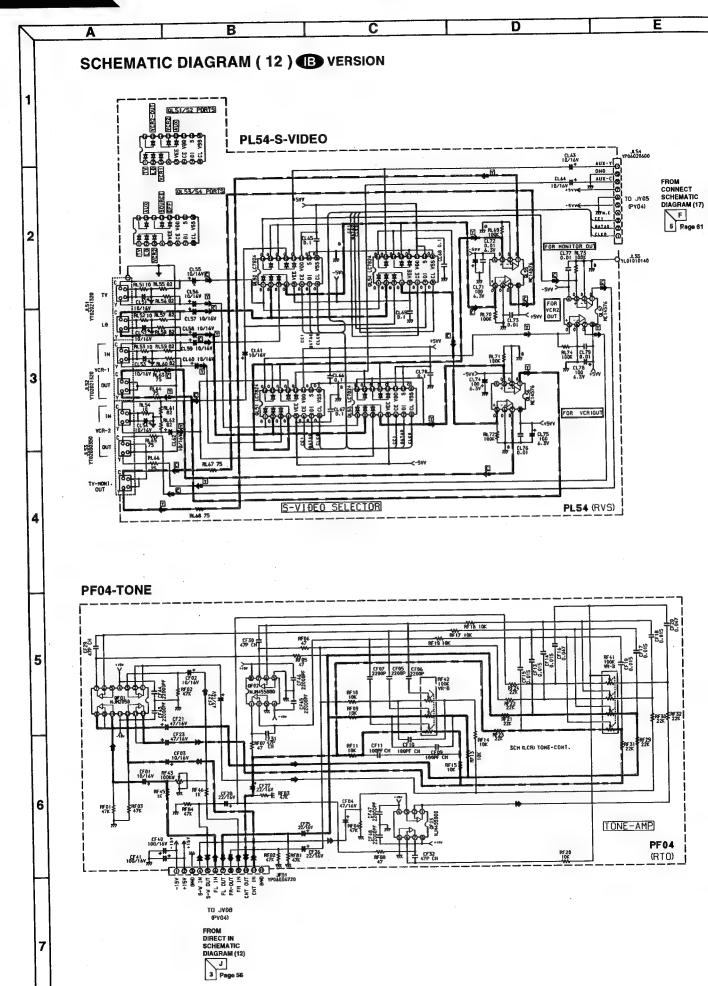


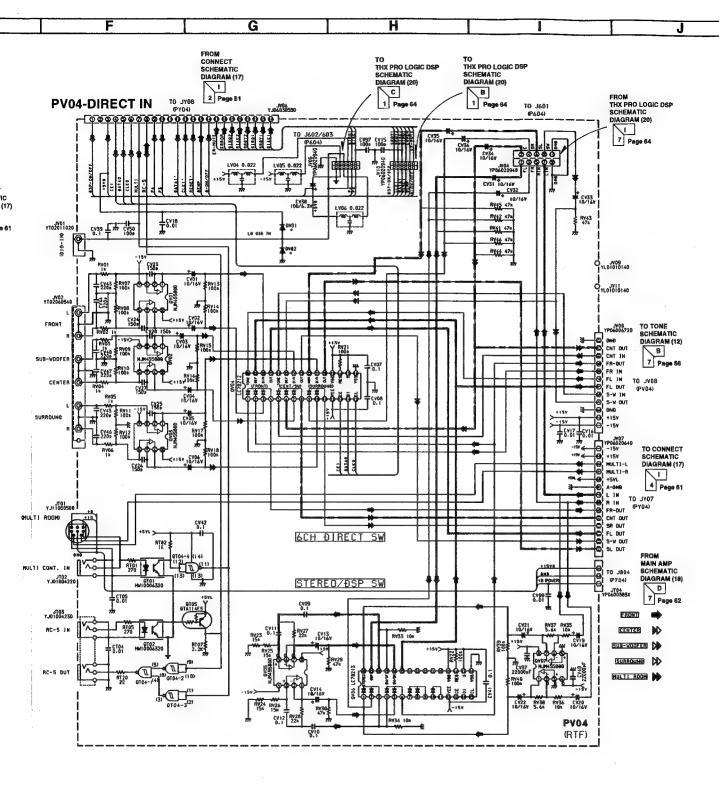


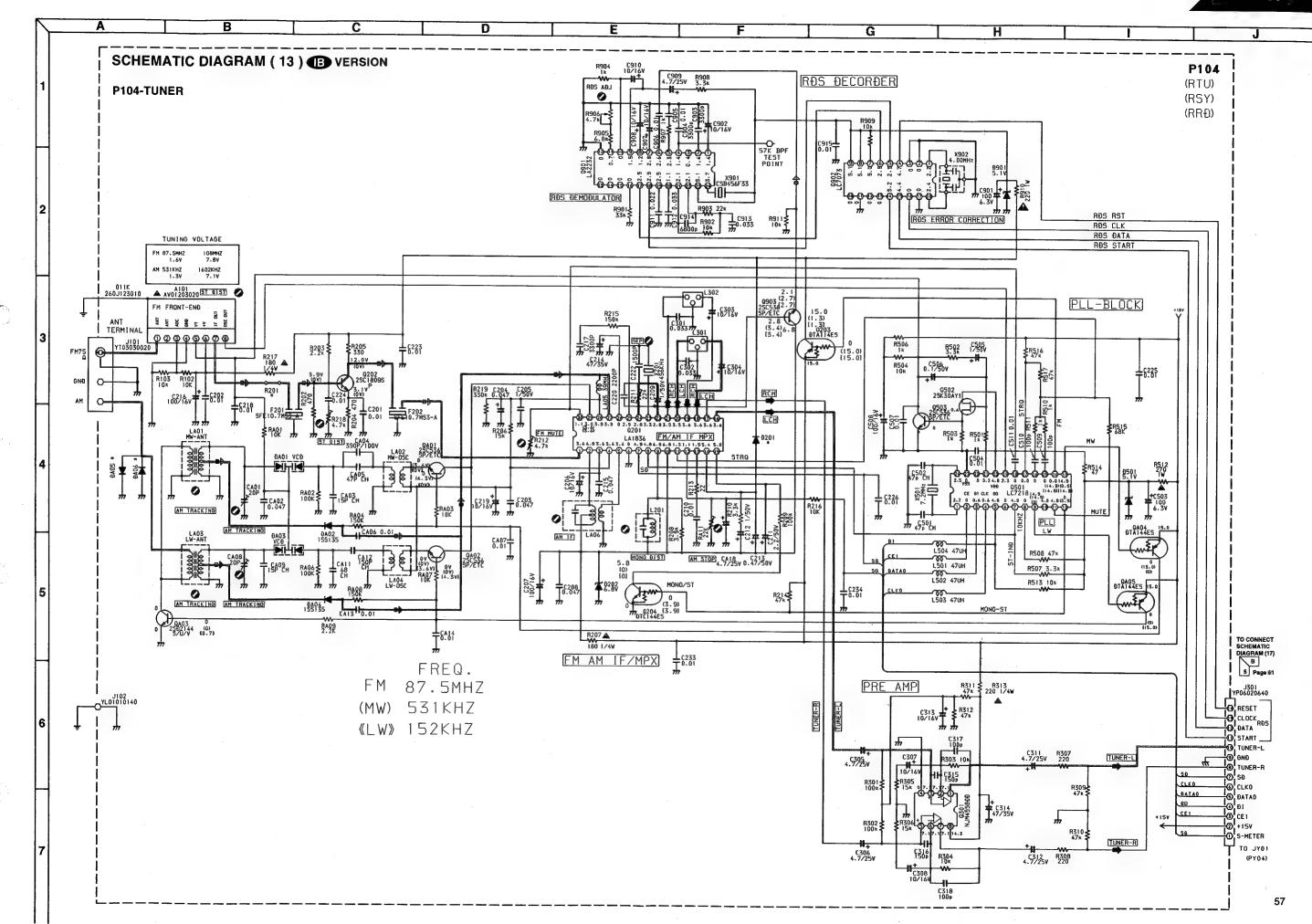


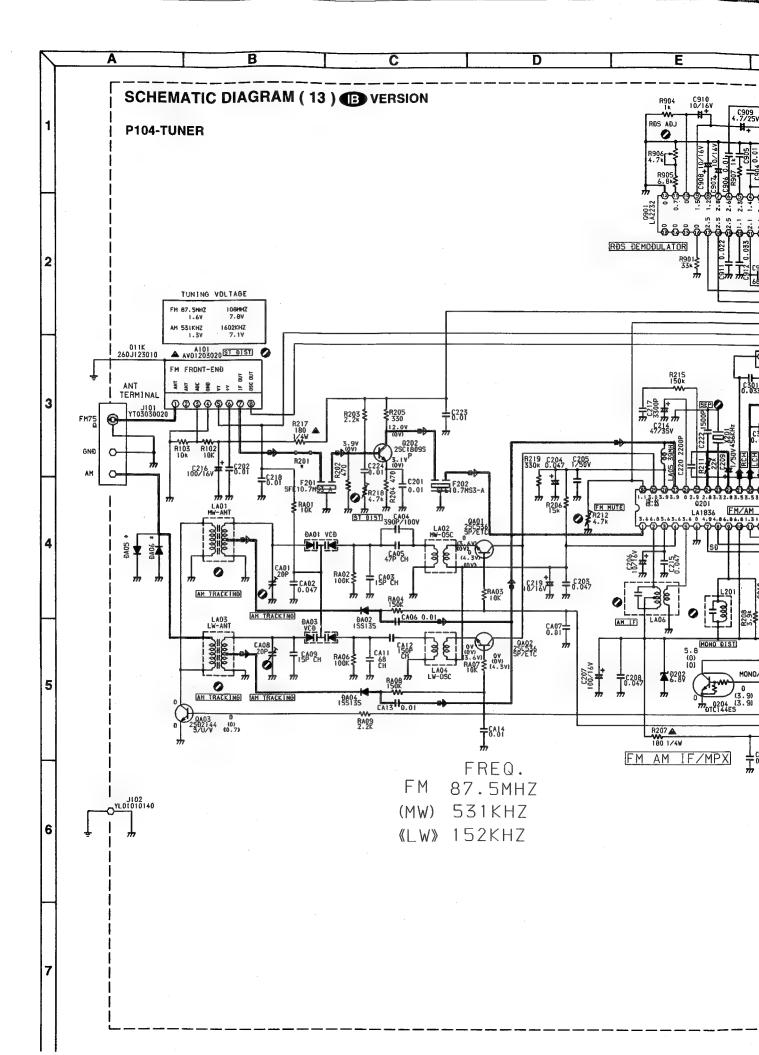


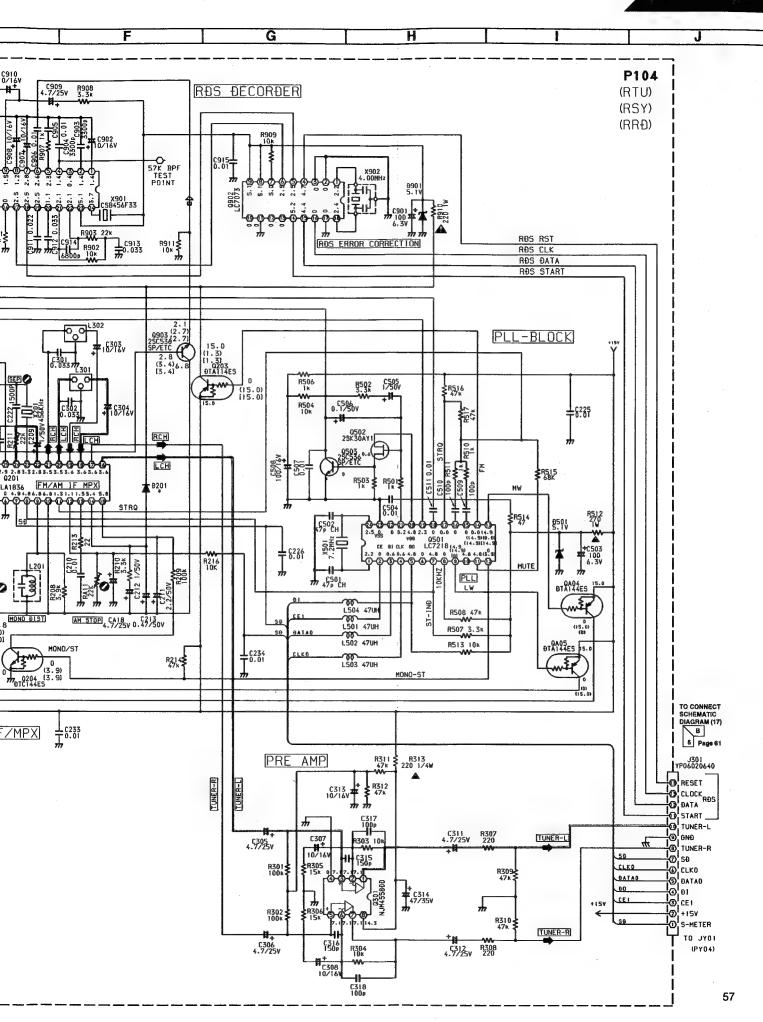
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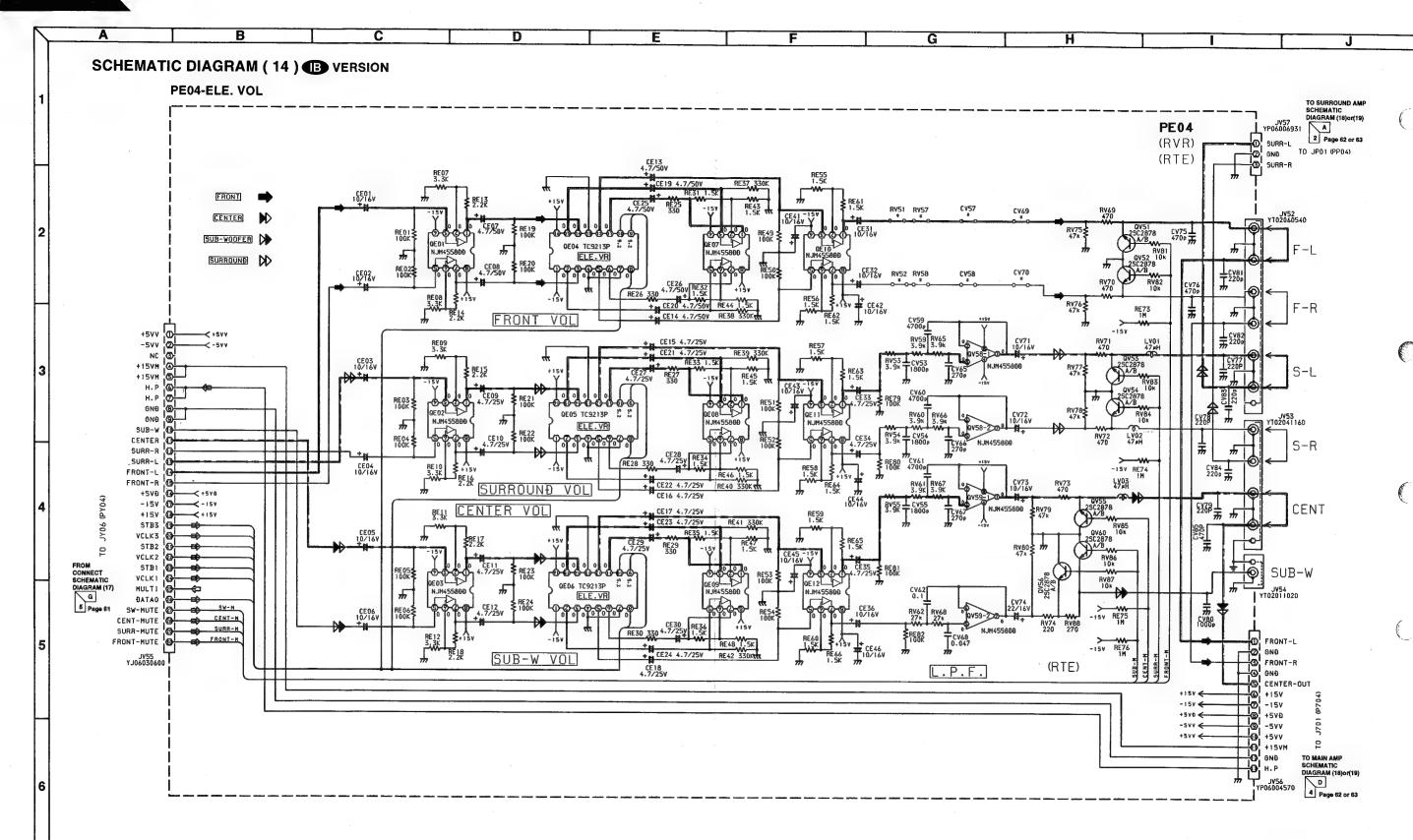


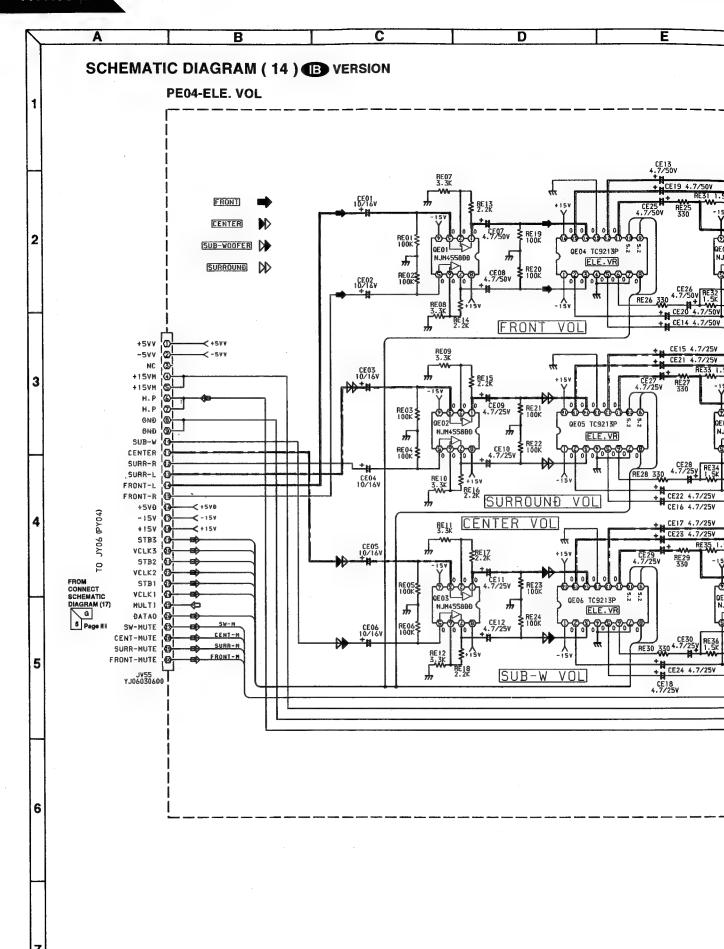


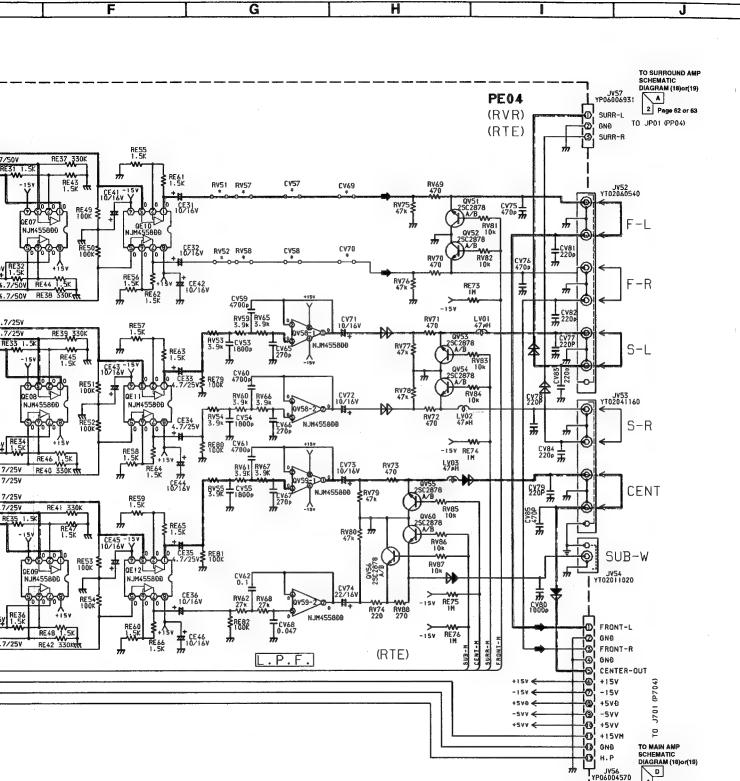




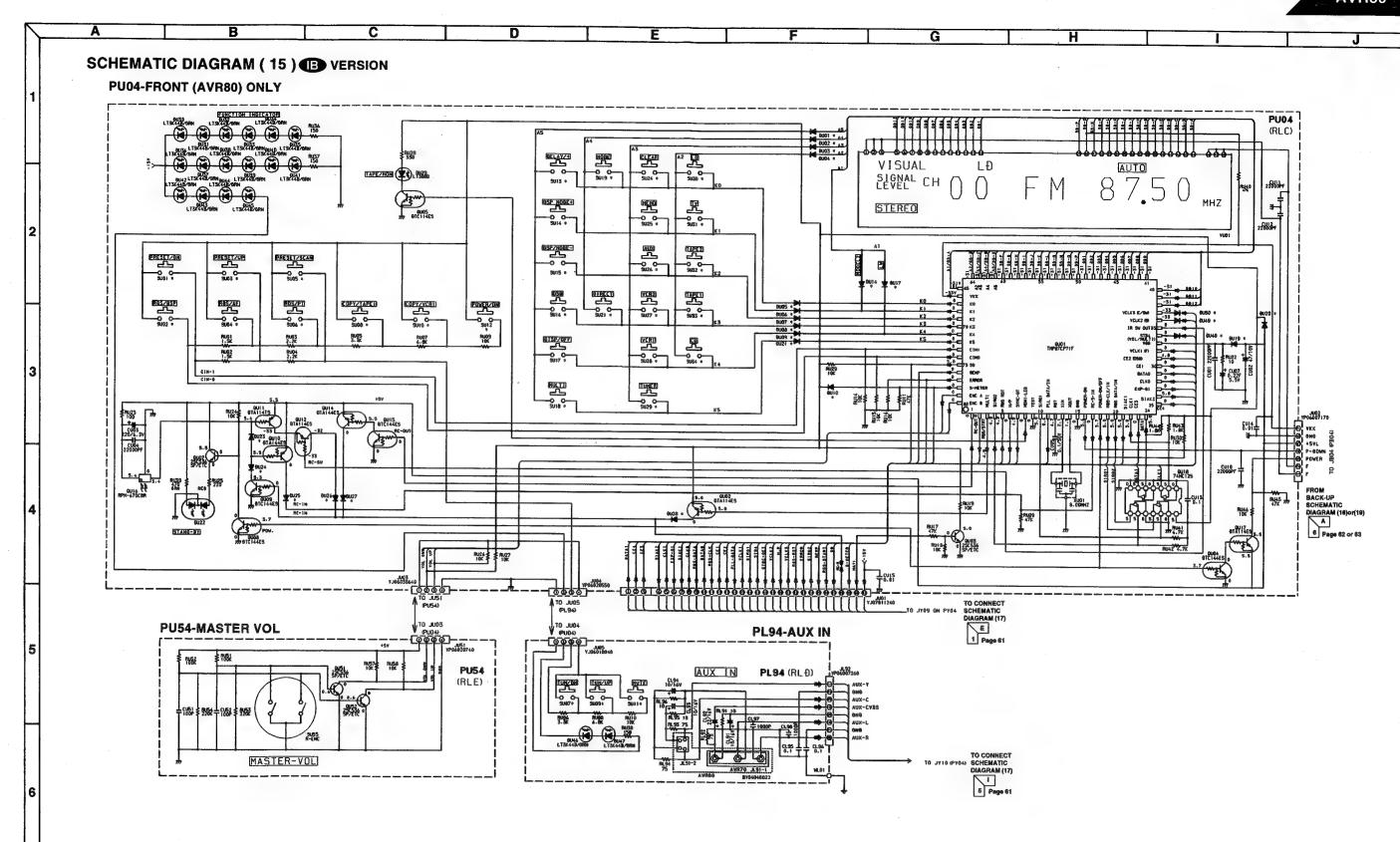


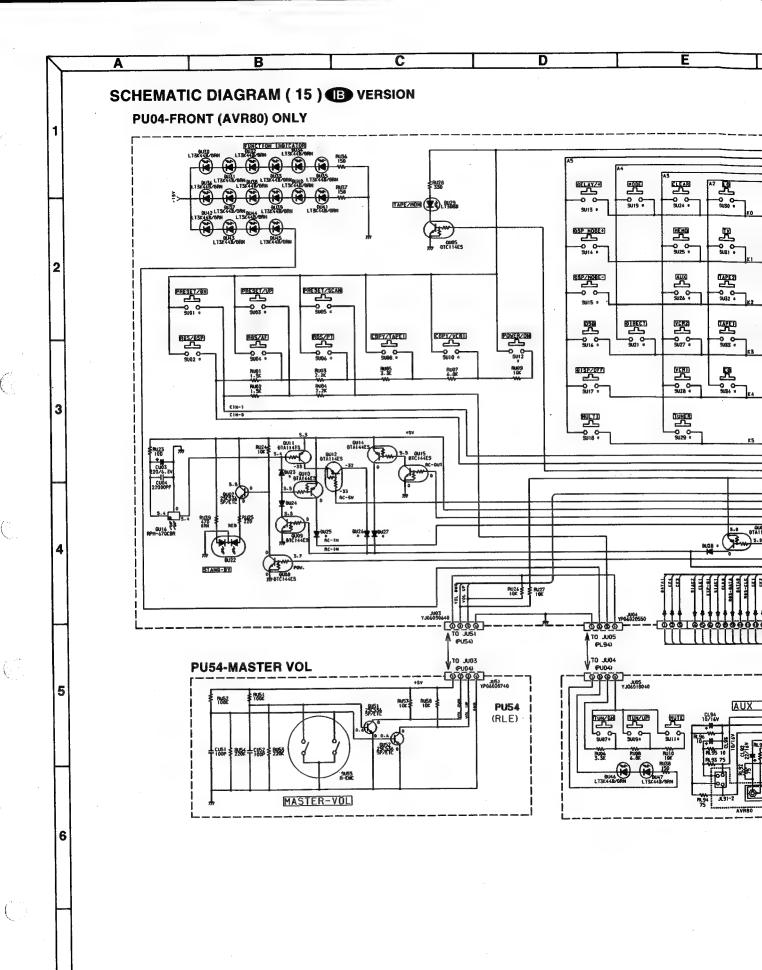


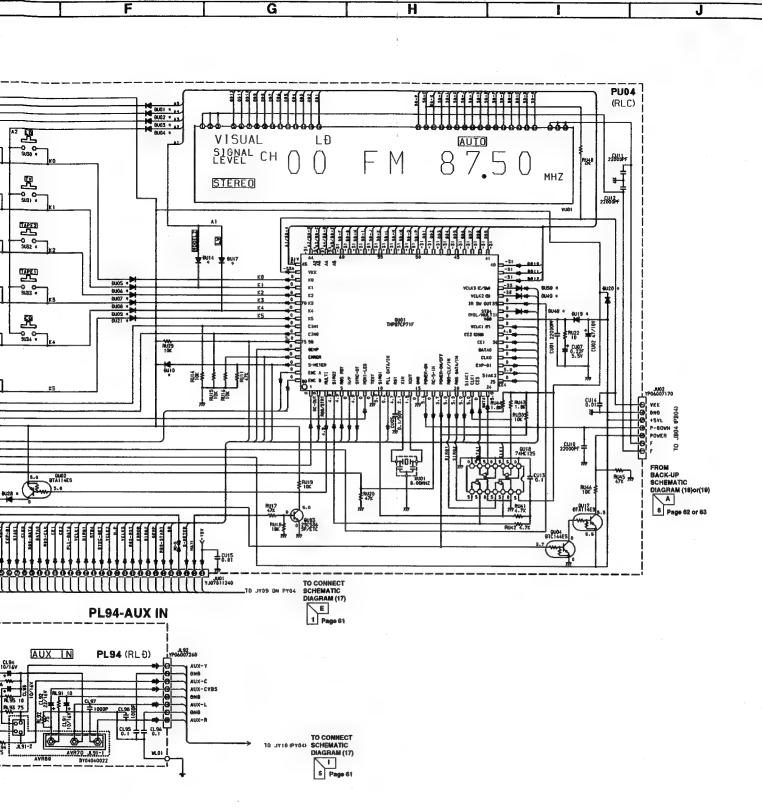


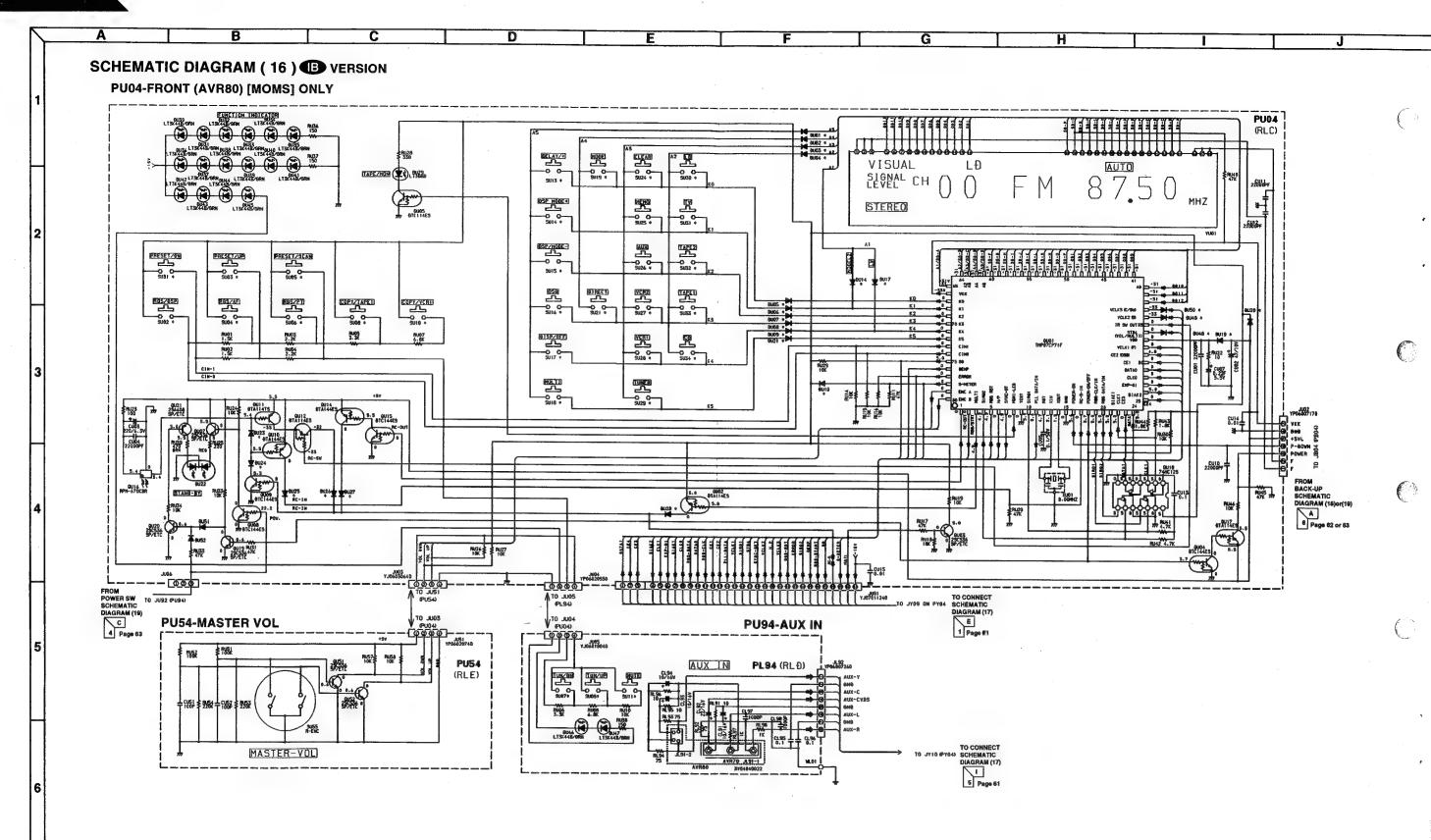


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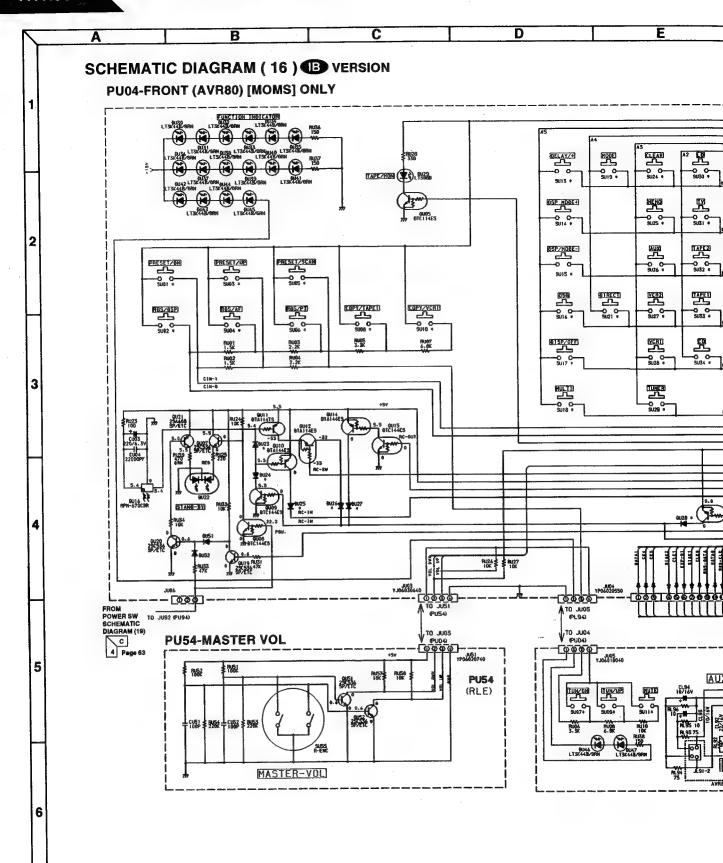






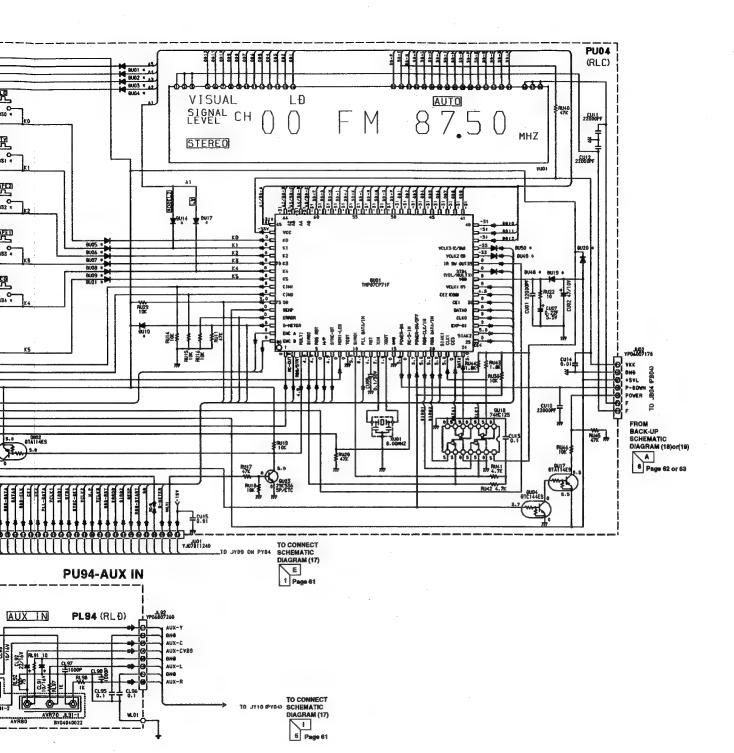


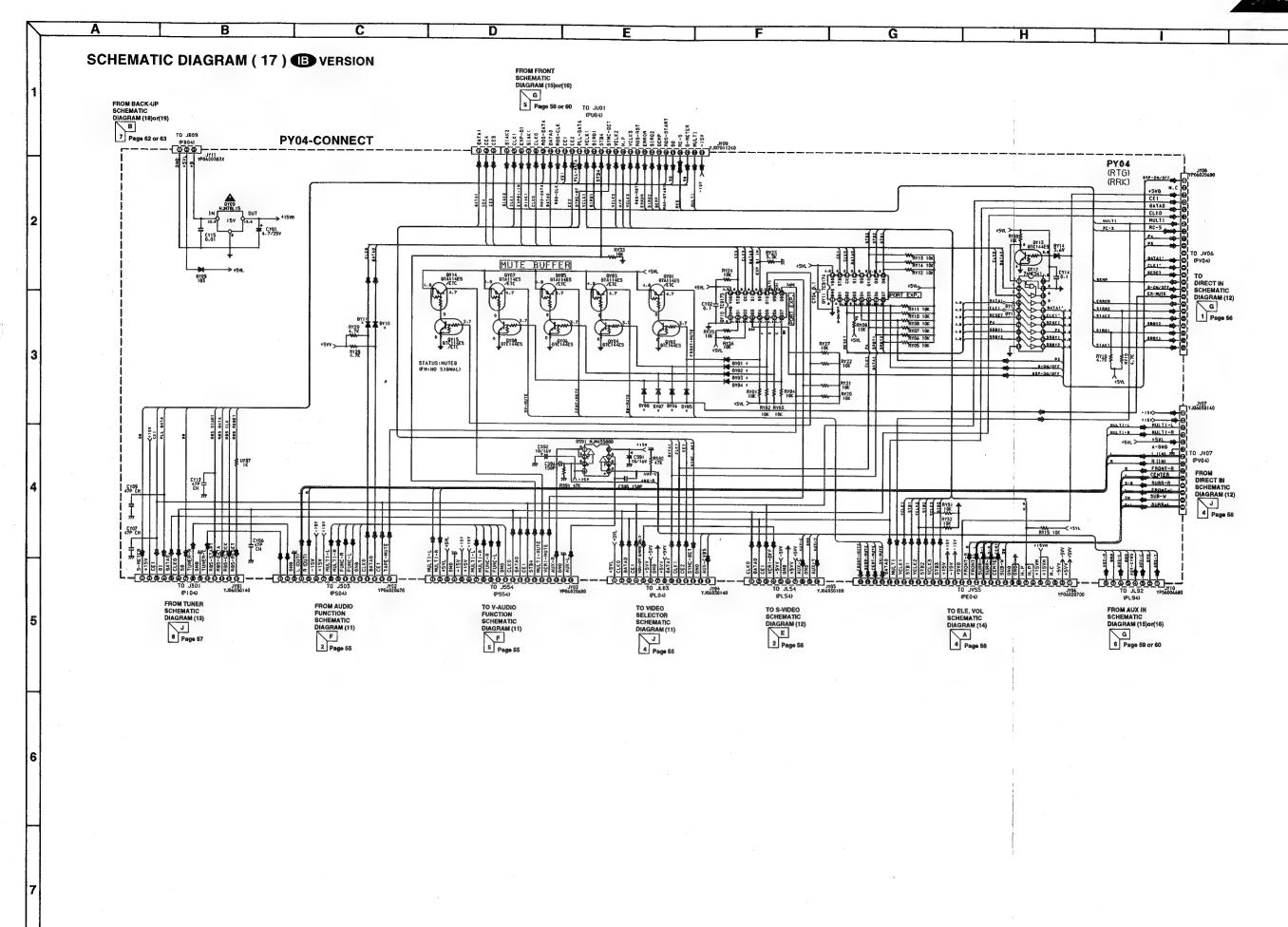
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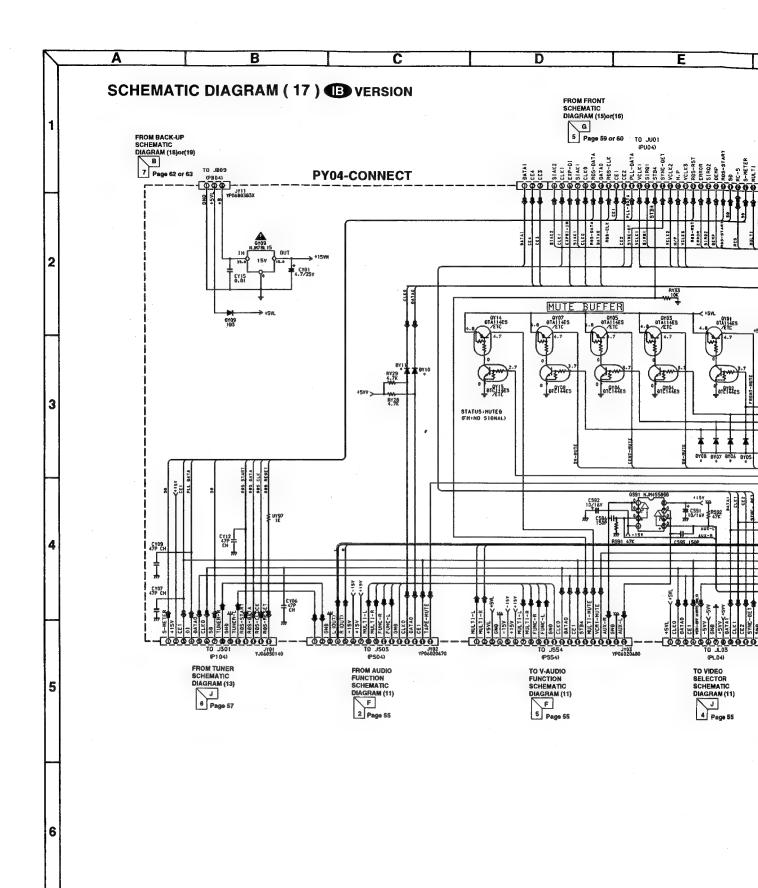


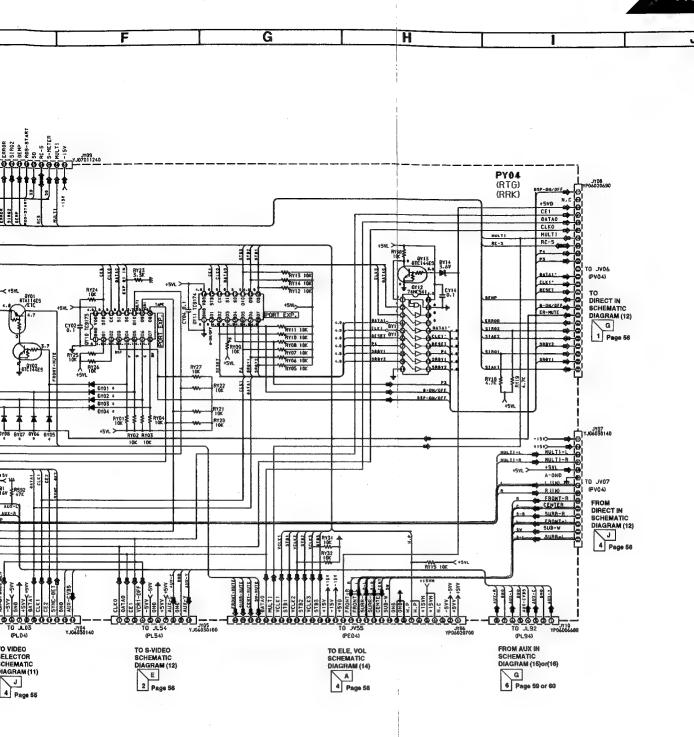
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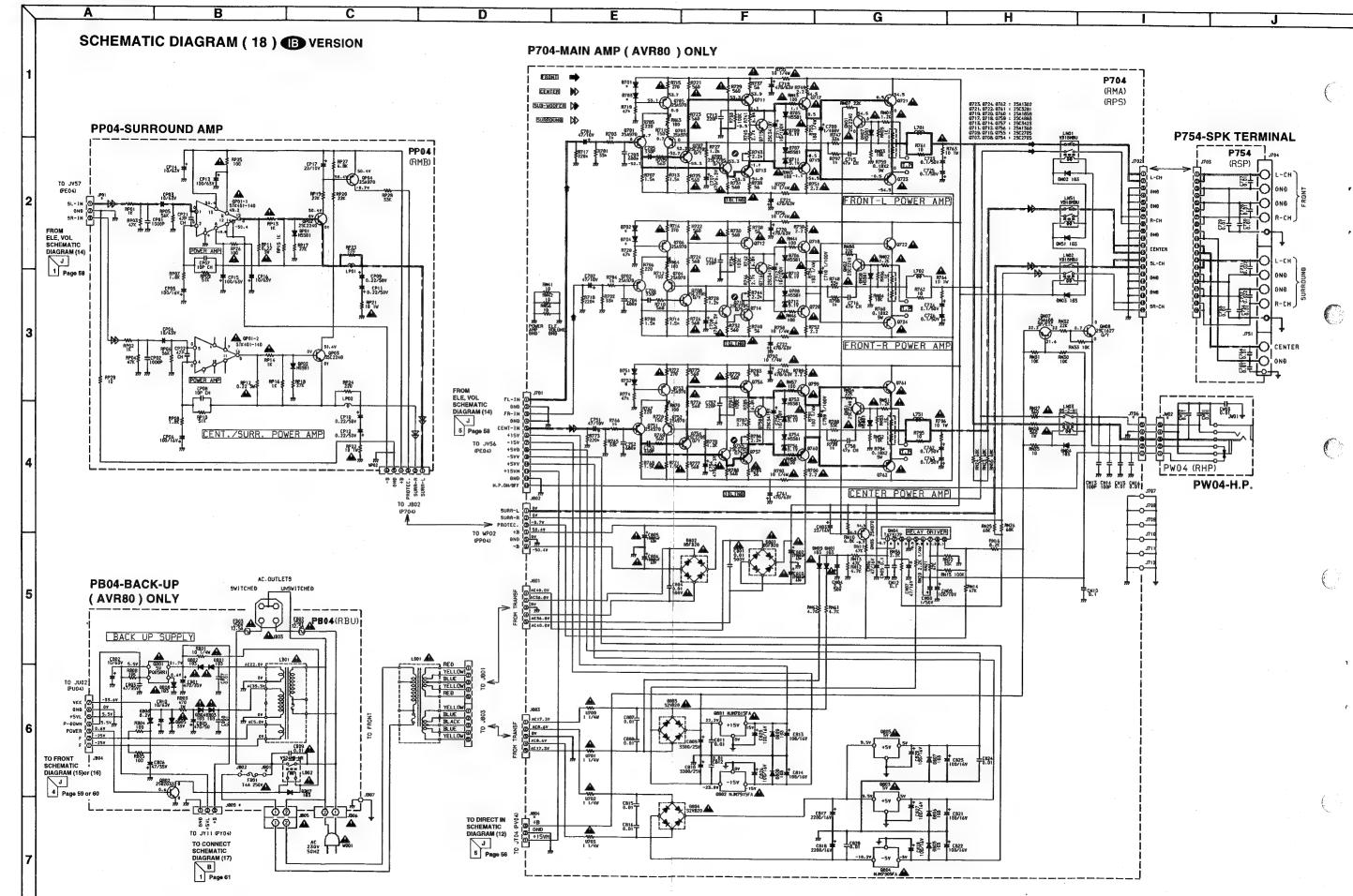


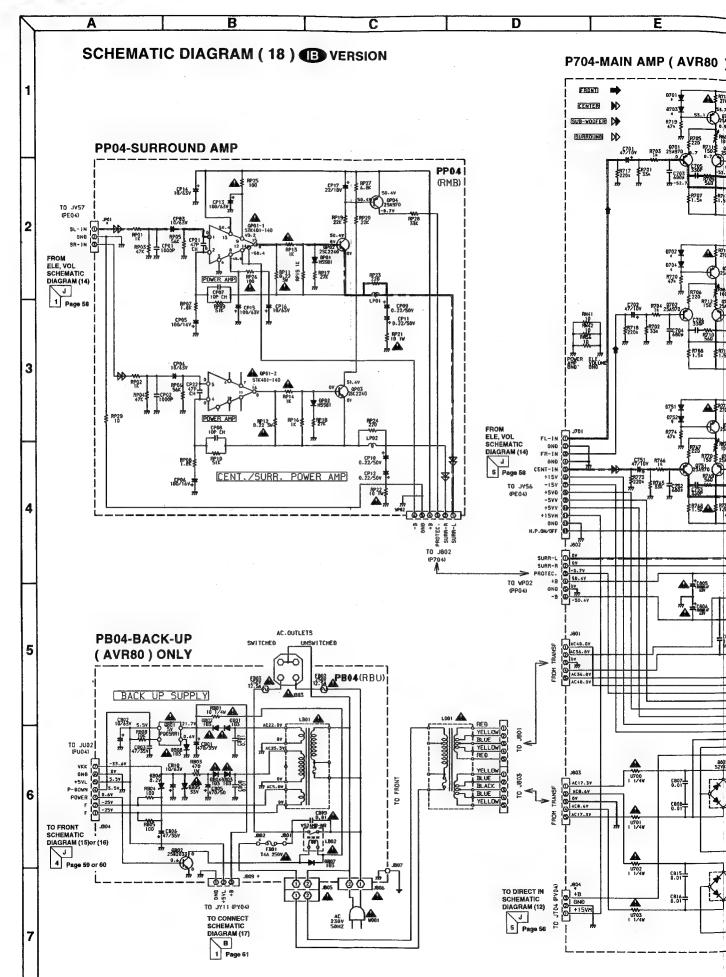


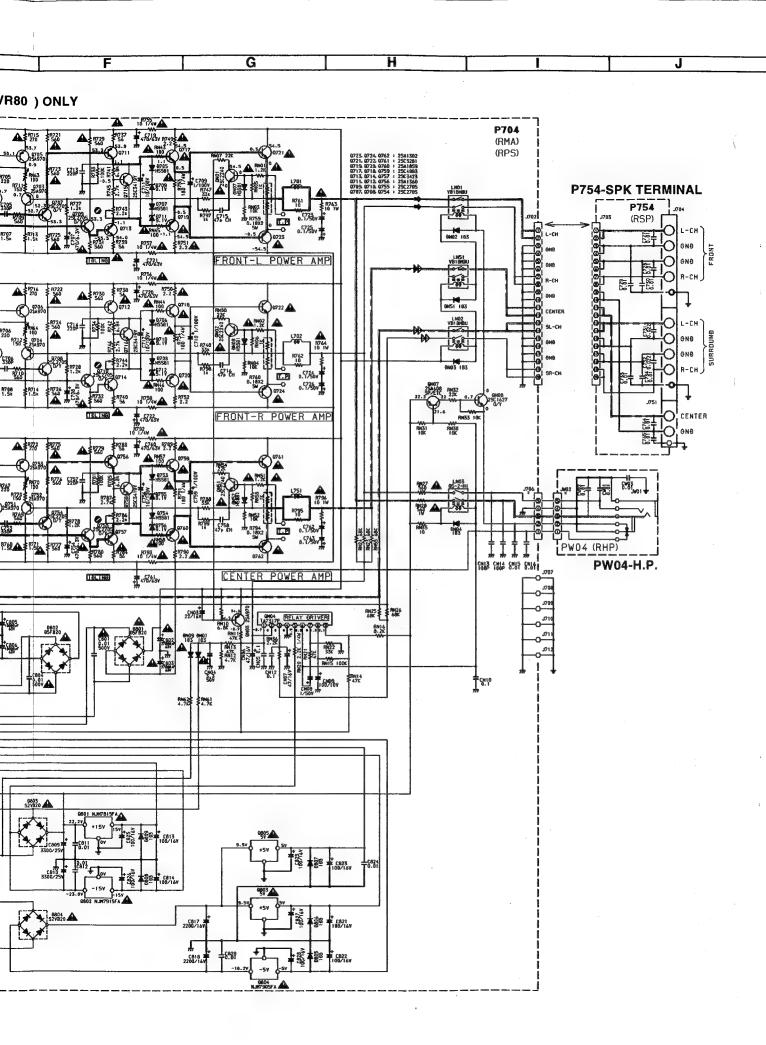


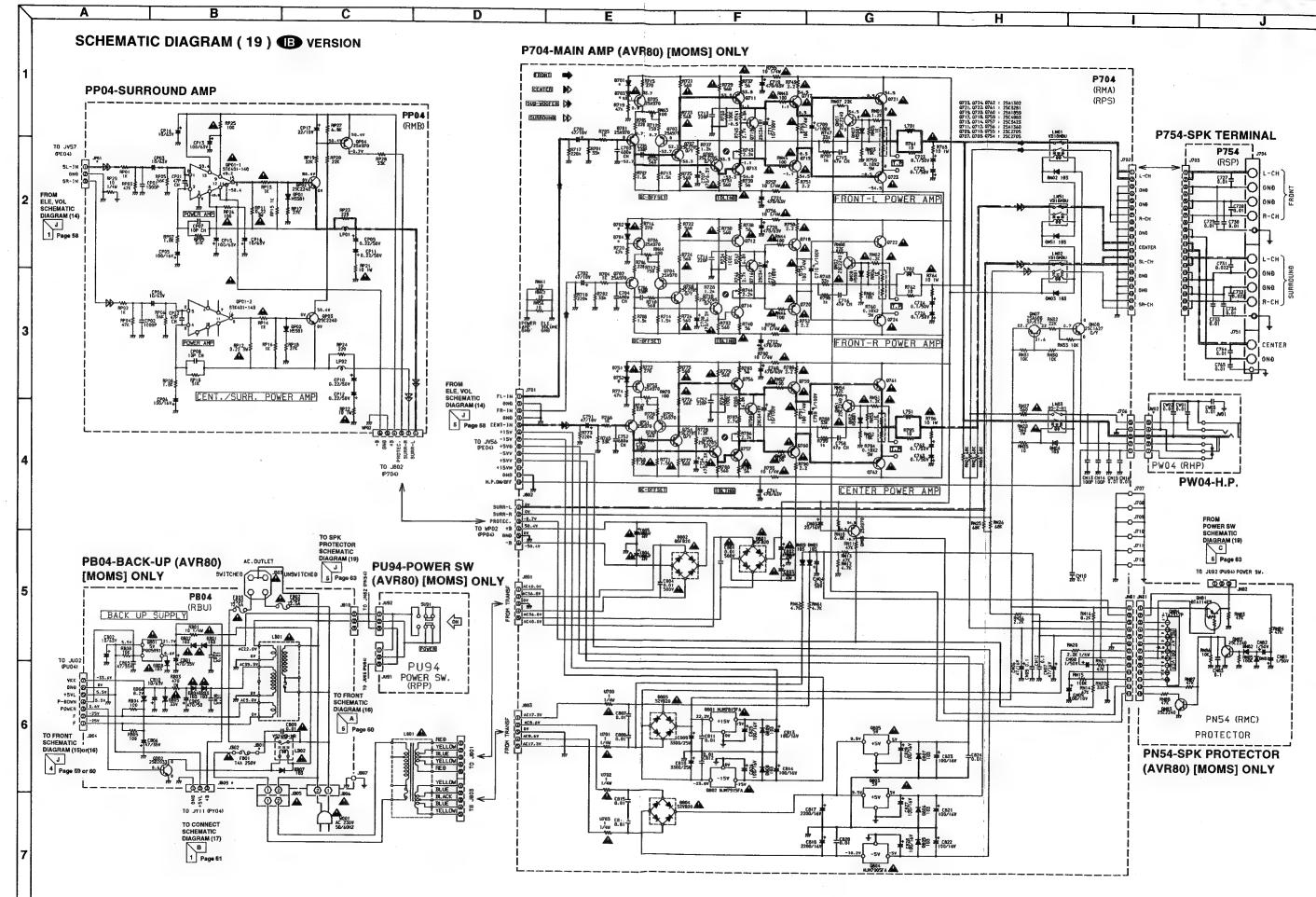


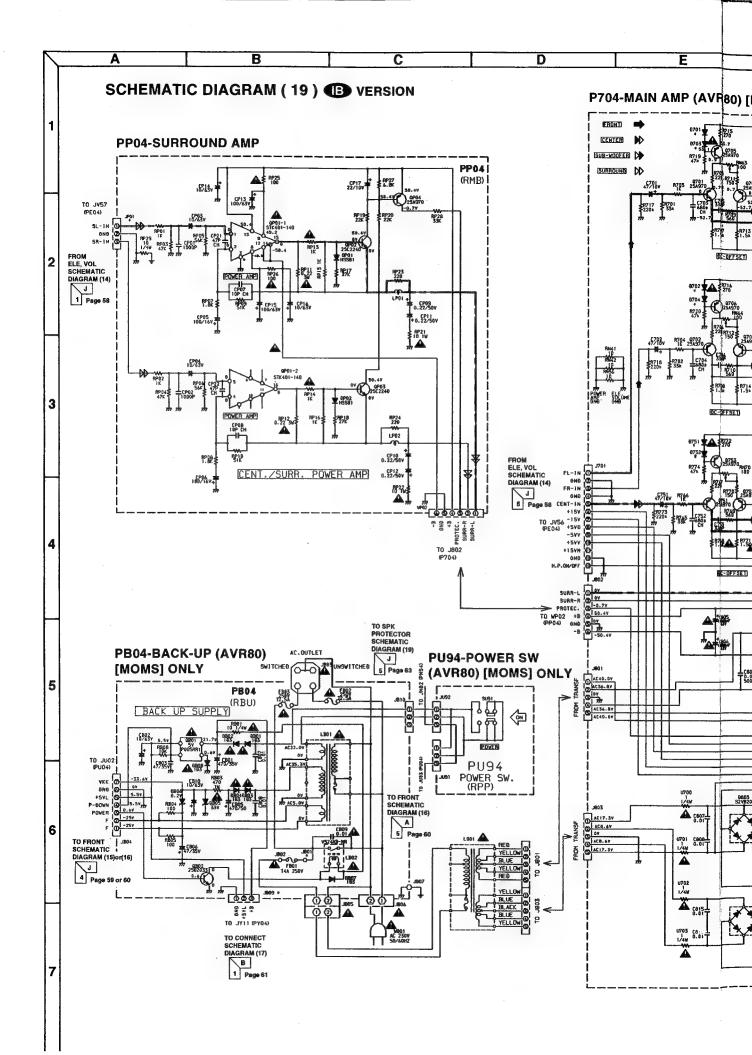


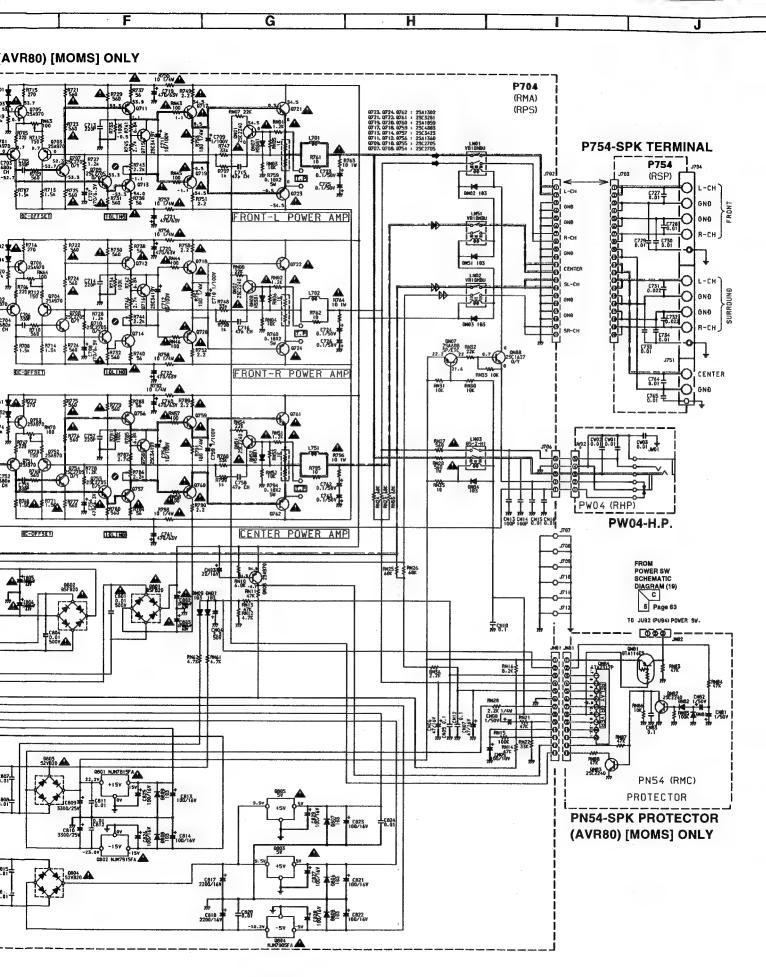












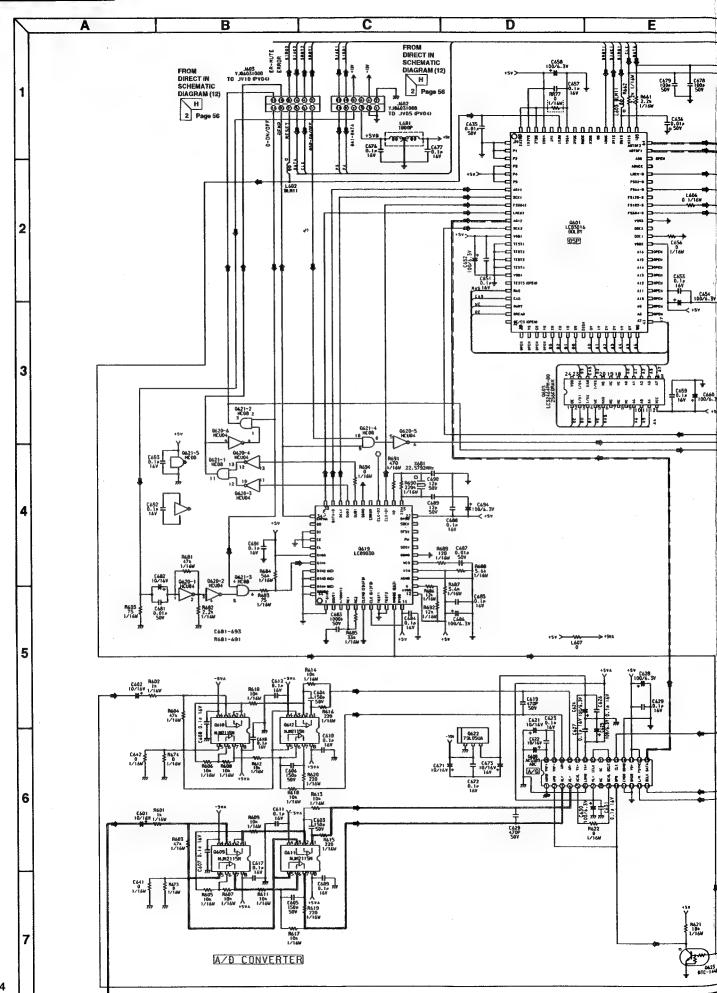
SUAROUND DD

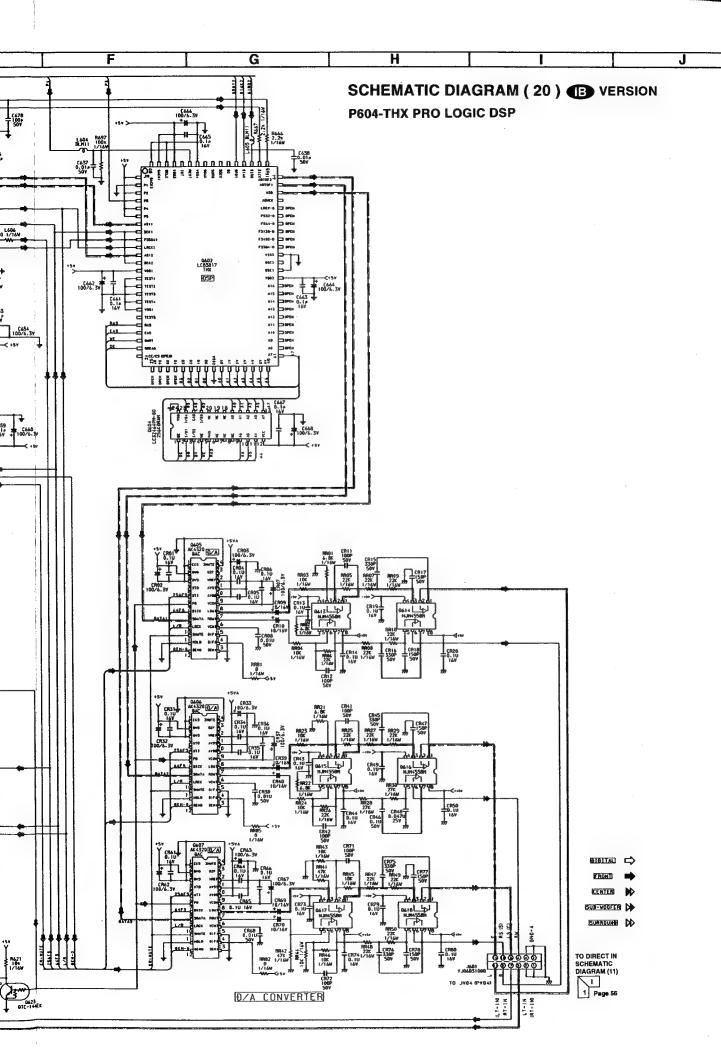
TO DIRECT IN SCHEMATIC DIAGRAM (11)

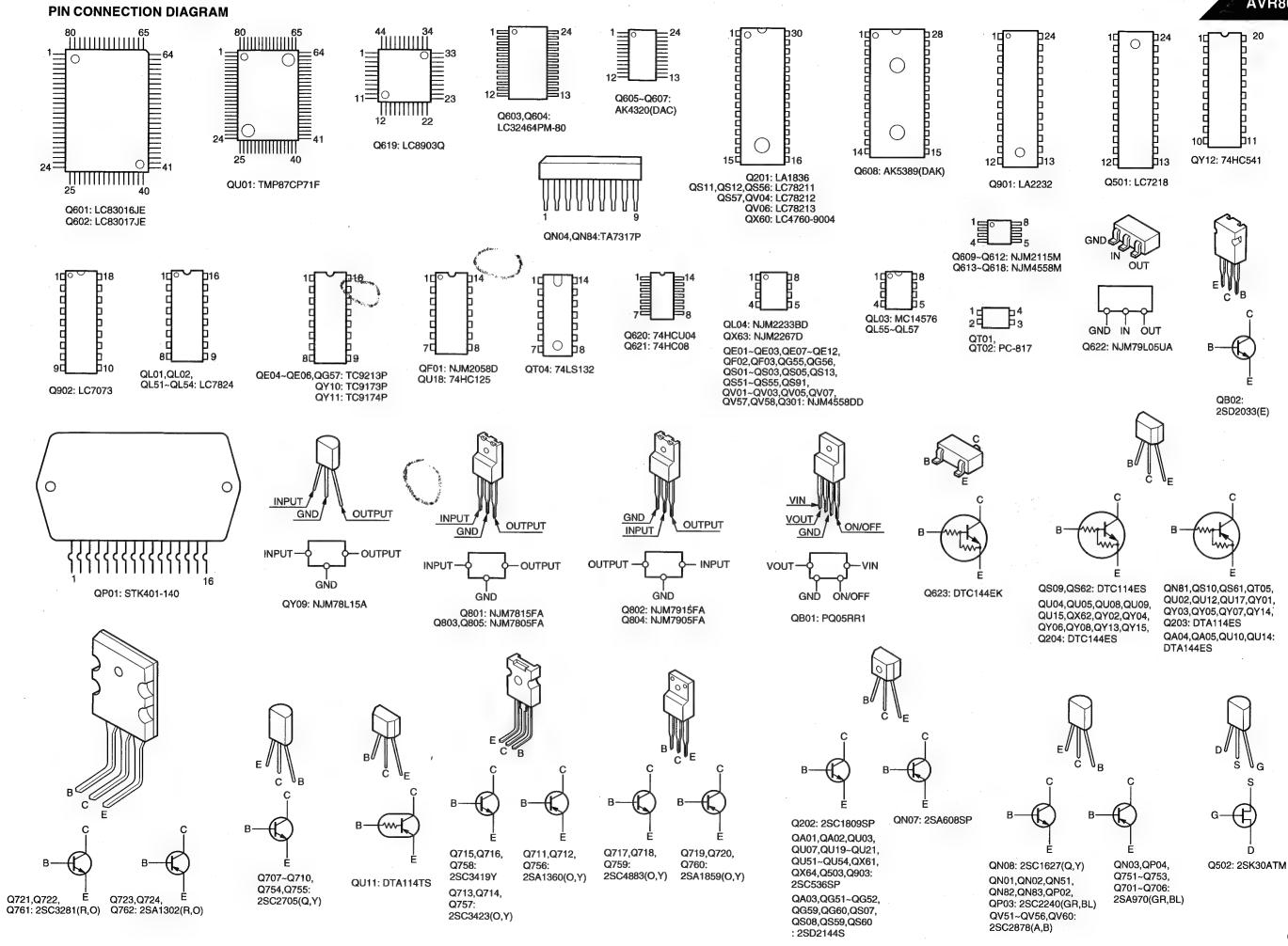
D/A CONVERTER

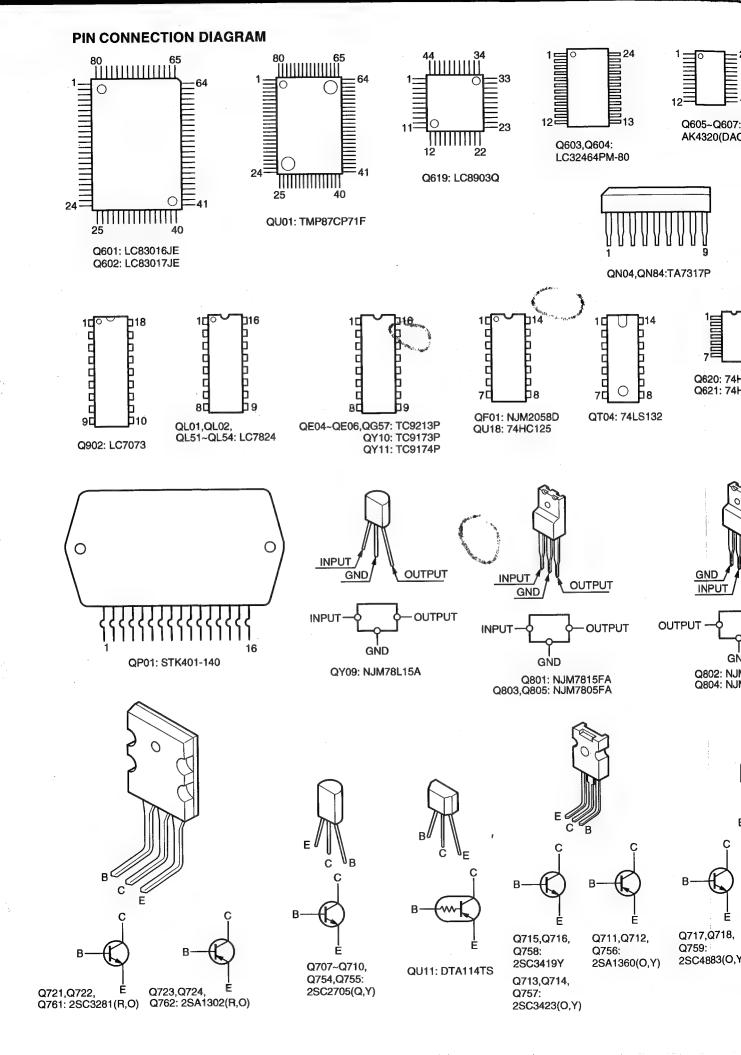
64

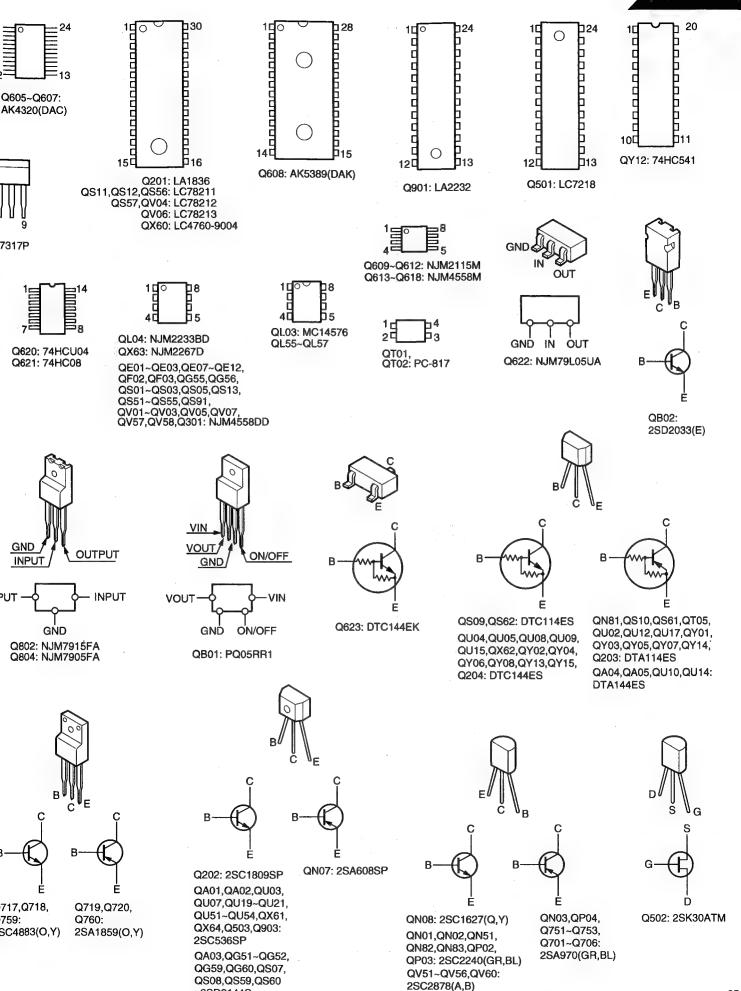
A/D CONVERTER











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